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ONTARIO

AUDIO-VISUAL EDUCATION DIVISION

DEPARTMENT OF EDUCATION

FILM CATALOGUE

1965

Issued by Authority of
The Minister of Education

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NOTE: The Audio-Visual Division of the Department of Education distributes **FILMS ONLY.** Other aids may be obtained from the sources indicated in the various publications.

NO FILM LISTED IN THIS CATALOGUE MAY BE USED ON TELEVISION WITHOUT SPECIAL PERMISSION FOR SUCH USE BEING CLEARED WITH THE FILM PRODUCER

Conditions of Film Service

The Audio-Visual Education Division wishes to provide as complete and efficient a service as possible. Because of the marked increase in the number of demands upon the film library, all borrowers of films are asked to follow these instructions carefully.

1. Films are provided exclusively for educational purposes in Ontario schools supported by public funds. They are not loaned for public entertainment. Under no circumstances may an admission charge be made for the privilege of seeing ANY of the films borrowed from the library.
2. Requests for films must bear the signature of the school principal.
3. Users of films assume responsibility for the loss or damage of films while in their possession or in return transit to the Division.
4. No rental charge is made by the Division for the use of films.
5. Films will normally be shipped by express. Outgoing express charges must be paid by the school. Return charges will be paid by the Audio-Visual Education Division.
6. In special circumstances when prior permission has been secured, shipment will be made by mail. In such cases, the Audio-Visual Education Division will pay postage on shipment to schools, while users will bear the cost of return postage. It is noted that the parcel post weight limit is 25 pounds, and film shipments should be insured to facilitate tracing, should such be necessary.
7. The time for retaining films is limited and must not exceed four consecutive school days, exclusive of the day of receipt of the shipment and of the day of its return to the Audio-Visual Education Division. Schools are asked to co-operate in returning films promptly after the last scheduled showing in order to facilitate maximum circulation.

8. Films must not be transferred to another user without being returned to the Division for inspection.
9. Immediately after the return of films to the Division they are inspected for damage and repaired if necessary. The Audio-Visual Education Division must reserve the right to assess charges for damage incurred, and to make the final decision in regard to assessment. Charges will be based upon the cost of the print, its prior condition, the damage incurred, and the cost of replacement footage.
10. Sound films must not be used on a silent projector.
11. The screening report form must be completed. The Audio-Visual Education Division is required to furnish reports to the Minister of Education based on this information.
12. The Audio-Visual Education Division reserves the right to refuse service to any school where these conditions are not observed carefully.

Instructions For Ordering Films

1. The Application for the loan of films should be made on the regular Requisition Form, which should be mailed to arrive at the Audio-Visual Education Division, 559 Jarvis Street, Toronto 5, at least ONE WEEK before the films are required.
2. When requesting films, use both order number and film title. Ex. SA-18 MORE POWER TO THE FARMER.
3. First, second and third choices should always be given to allow for suitable substitutions. The Division employees do not have the time either to make their own substitutions or to select films for schools. This method of ordering will best assist the Division in rendering adequate service to a maximum number of schools.
4. Requests for films are filed and films are shipped in the order in which the applications are received. Bookings are not usually confirmed by the Audio-Visual Education Division.
5. If the projector to be used is a new purchase it must be registered with the Film Library on the Machine Approval Form which may be obtained from the Division on application.
6. The shipment should be checked immediately upon receipt. Shortage or damage should be reported to the Audio-Visual Education Division immediately.

Instructions For Returning Films

1. All films should be placed in the proper containers immediately after use.
2. All manuals accompanying films should be returned with the films.
3. Films must NOT BE REWOUND after the **Final** showing. Such practice doubles the work of the film inspectors in checking returned films for breaks or damage, as the film must then be unwound and rewound. Each school should be equipped with spare 400-foot, 800-foot, 1200-foot and 1600-foot reels.
4. The return express tags should be firmly attached for safe delivery of the film shipment.

Suggestions for Effective Utilization of Films

THE FILM AS A TEACHING AID

The effectiveness of the film as an aid to teaching depends on the teacher. If the teacher uses it skillfully he can get ideas across more easily and make his work more stimulating and interesting both to himself and his pupils, but if he uses it as mere entertainment, even a showing of the best film may be a waste of time.

Consider the lesson you are teaching to find out what visual aid will best serve your purpose — a map, globe, still picture, object, excursion or motion picture.

Frequently the film must be supplemented by other visual aids — maps, charts, still pictures, etc. Books and magazines may be necessary to answer questions which have been aroused by the showing of the film. Its value may depend on the way in which it leads to the effective use of other teaching material.

THE VALUE OF A FILM

The following are some of the ways in which films may be of value:

1. Pupils may be shown how movement takes place in any process.
2. Pupils may be made to see the relation between cause and effect.
3. Through animation, slow motion, and other devices, the pupil may be shown processes otherwise unobservable.
4. Through historical dramatization the atmosphere and setting of events of the past may be made real.
5. Through dramatic incidents and music, desirable attitudes may be built up.
6. Pictures may motivate further study.

THE RELATION OF THE FILM TO THE TEACHING UNIT

Be clear as to the purpose of showing any film that you are using.

Films may be used:

(a) to introduce a unit by motivating it, presenting a general overview of the work that is to follow, or developing desirable emotional attitudes.
(b) to present concrete detail about some phase of the work which will make abstractions of the lesson meaningful.
(c) to summarize or review the unit which has already been covered.

THE PROCEDURE IN SHOWING A FILM

In showing a film the teacher must:

1. plan the use of the film in relation to the rest of his work;
2. select the film best suited to his purpose;
3. preview the film and plan for its presentation;
4. prepare the class for the showing;
5. show the film;
6. follow up the showing by discussion, tests, etc.;
7. show again when necessary.

THE PREVIEW

The teacher should preview the film and plan for its use. Much valuable school time has been wasted because teachers have not looked at the film before showing it to the class.

Through this preview the teacher will find out whether more preparatory work is needed to enable pupils to view the film intelligently, and plan for the questions and discussions which may follow.

Sometimes he may find the film to be so unrelated to the work that he is doing that he will return it without using it. Generally if a film is unrelated to the work being done in class, it is better not to waste time showing it.

THE PREPARATION OF THE CLASS

This may vary with different films. The following are suggestions:

1. The teacher may list on the board questions which the film should answer. A discussion of possible answers may stimulate observation.
2. The teacher may describe in a general way the nature of the film and have the pupils list the questions.
3. Have a group of students assume the place of the teacher — preview the film, introduce it, and suggest questions which it may answer.

SHOWING THE FILM

1. Set up the machine and thread the film before the class period.
2. Try out the film so that the focus and volume of sound will be correct.

3. See that the room is darkened and seats arranged so that pupils can see clearly.
4. Learn to handle the projector competently.

THE FOLLOW-UP

Discuss questions previously listed.

Encourage new questions, comments and opinions.

Give an objective test if the purpose of showing the film was mainly the acquisition of information, but do not give a test on all films shown, especially if they are shown to develop emotional attitudes. Some may be more effective if a test is not required.

Some films may stimulate creative work — drawing a picture, writing a poem, or essay, writing a letter, research reports, etc.

Some films should be shown only once, others should be shown several times to give students an opportunity to get points which they missed, or to clear up misconceptions which have been revealed in the discussion period.

It is suggested that the teacher keep notes on all films used in order to improve future lessons with the same film.

Hints for Projectionists

1. Study the instruction booklet that accompanies your projector.
2. Keep your machine clean, especially the projection gate. The film guide and pressure plate should be wiped off with a chamois after each screening. Excessive dirt and dust can scratch a film beyond repair.
3. After oiling the projector in accordance with instructions supplied by the manufacturer, be sure to remove all excess oil from the machine, as oil is injurious to the film emulsion.
4. Make certain that the film is properly threaded before screening.
5. Keep a full loop at both the top and the bottom of the gate. A short loop will cause the perforations to be torn and will result in serious damage to the film.
6. A projector should be attended by an experienced operator during the whole time it is in operation.
7. Make preliminary tests by projecting a few feet of film before the film is run continuously.
8. Colour films require special attention from the operator. ALWAYS clean the projector carefully BEFORE using a colour film.
9. Never tighten a loosely wound reel of film by pulling it. This scratches the whole film.
10. Do not stop the projector while the light is on. The heat will damage the film.

11. Do not splice a broken film. Slip the broken end under the film on the take-up reel and complete the showing. Return to the Division for splicing.
12. Films shall be used only on projectors approved by the Audio-Visual Education Division. A list of approved projectors may be secured from the Division on request. A Machine Approval form will be forwarded to register a new projector for service.
13. A projector in frequent use should be returned for cleaning to the dealer from whom it was purchased, at least twice a year.

Light Control

1. No system of projection has as yet been devised which permits satisfactory daily use of the several projected picture media without light control facilities.
2. The screen should be the brightest object in the room. Sunlight should be excluded so that it does not produce bright spots on the wall near the screen, nor strike other objects in the room which might cause reflections.
3. Pull drapes on tracks, when properly installed, are the most efficient and most easily operated of all black-out devices. Drapes hung on tracks suspended from the ceiling to reach several inches below the window, and a short distance from the wall will allow little light leakage and provide a flow of air. While Farmer's Satin is probably best, it has been found from experiments that coloured denim or twill will make satisfactory drapes and at the same time add to the attractiveness of the classroom.
4. Shades of a translucent type admit too much light and are unsuitable for room darkening. Opaque shades with metal or wood casings to prevent seepage of light from the sides give adequate light control. If casings are not available, the shades should be mounted outside the interior window casing with at least a 4″ overlapping. Their initial cost is quite moderate, but they are easily damaged, deteriorate quite rapidly, and may hinder ventilation.
5. Ordinary Venetian blinds are feasible for projection of black and white pictures, but seldom give satisfaction with natural colour pictures which require almost complete darkness in order to show the true colours. Full-closure Venetian blinds, though available, are very costly.
6. Any device used in light control should be appropriate, harmonize with the colour scheme and furnishings of the room, and not interfere with the ventilation.
7. Architects should be asked to consider blackout needs when designing classrooms. Valances should be installed at the top, and, where possible, at the sides of windows to further prevent light leakage.

Classified Lists of Films According to Subject Areas

NOTES

1. All films are sound films. Do not run any of these films on a silent projector.
2. The curriculum provides for four Divisions. The following abbreviations will be used to indicate the Division where each film can be used most effectively.

	Abbrev.
Primary Division — Grades 1 to 3	Pr.
Junior Division — Grades 4 to 6	Jr.
Intermediate Division — Grades 7 to 10	Int.
Senior Division — Grades 11 to 13	Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
	ART			
A-28	Animules (colour)	L. Shore	1	Jr.
A-39	Art and Crafts in Norway (colour)	Jan. Wik.	1¼	Int.
A-1	Arts and Crafts of Mexico (b & w)	E.B.	1	Int.
A-29	Art and Motion (colour)	E.B.	1½	Int. Sr.
A-84	Art and You (colour)	F.A.C.	1	Int. Sr.
A-38	Art from Scrap (colour)	Crawley	1	Jr. Int.
A-62	Art in the Western World (colour)	E.B.	3	Int. Sr.
A-94	Art of Metal Sculpture (colour)	McG.-H.	2	Sr.
A-101	Artist in Nature (colour)	Bailey	1	Sr.
A-70	Birds and Etchings (colour)	Bailey	½	Jr.
A-85	Carvaggio and Baroque (colour)	McG.-H.	1½	Sr.
A-30	Ceramics Simple (b & w)	I.E.F.	1	Int. Sr.
A-86	Collage: Exploring Texture (colour)	I.E.F.	1¼	Pr. Jr.
A-53	Colour (colour)	E.B.	½	Jr.
A-40	Crayon Resist (colour)	Bailey	½	Jr.
A-63	Cubism (colour)	Bailey	1	Int. Sr.
A-95	David Milne (colour)	N.F.B.	1¼	Sr.
A-87	Design Into Space (colour)	I.F.B.	1	Int.
A-16	Design To Music (colour)	Crawley	½	Jr. Int.
A-88	Design With Paper (colour)	I.F.B.	1	Int.
A-89	Discovering Colour (colour)	F.A.C.	1½	Int. Sr.
A-90	Discovering Perspective (colour)	F.A.C.	1½	Jr.–Sr.
A-91	Discovering Texture (colour)	F.A.C.	1½	Int.Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
A-96	Durer and the Renaissance (colour)	McG.-H.	1¼	Sr.
A-71	Enamelling Art (colour)	I.F.B.	1	Int. Sr.
A-23	Fiddle De Dee (colour)	N.F.B.	½	Int. Sr
A-17	Finger Painting (colour)	Crawley	½	Int. Sr.
A-54	Form (colour)	E.B.	½	Jr.
A-79	Glory of Goya (b & w)	Pictura	1½	Sr.
A-97	Gothic Art (colour)	McG.-H.	1½	Sr.
A-80	Grant Wood (b & w)	Pictura	1½	Sr.
A-72	Guernica, Pablo Picasso (b & w)	Pictura	1¼	Sr.
A-98	How to Make a Stencil Print (colour)	Bailey	1	Jr. Int.
A-73	Insects and Painting (colour)	Bailey	½	Jr.
A-48	Jolifou Inn (colour)	N.F.B.	1	Int. Sr.
A-4	Klee Wyck (colour)	N.F.B.	1½	Int. Sr.
A-49	Kumak, the Sleepy Hunter (colour)	Dunclaren	1¼	Jr. Int.
A-74	Lascaux (Cradle of Man's Art) (colour)	W. Chapman	2	Int. Sr.
A-18	Leather Work (b & w)	C.F.I.	2	Int. Sr.
A-81	Legend of St. Ursula (b & w)	Pictura	1	Sr.
A-64	Legend of the Raven (colour)	Crawley	1¼	Int. Sr.
A-55	Leonardo Da Vinci (colour)	E.B.	2½	Sr.
A-56	Light and Dark (colour)	E.B.	½	Jr.
A-57	Line (colour)	E.B.	½	Jr.
A-92	Line and Art (colour)	Thorne	1	Int.
A-102	Lines In Relief: Woodcut and Block Printing (colour)	E.B.	1	Int. Sr.
A-31	Lismer (colour)	N.F.B.	1¾	Int. Sr.
A-24	Loom Weaving (colour)	Crawley	½	Jr. Int.
A-19	Loon's Necklace, The (colour)	Crawley	1	Int. Sr.
A-5	Making of a Mural (colour)	E.B.	1	Int. Sr.
A-25	Mask, Making A (colour)	Crawley	½	Jr. Int.
A-20	Model House Making (colour)	Crawley	½	Jr. Int.
A-6	Modern Lithographer (b & w)	E.B.	1	Int. Sr.
A-41	Monotype Printing (colour)	Bailey	½	Jr.
A-21	Mother Goose (colour)	Bailey	1	Pr.
A-65	Mural (Imperial Oil Building) (colour)	Imp. Oil	3	Int. Sr.
A-58	Nature of Colour (colour)	Coronet	1	Int. Sr.
A-66	Non-Objective Art (colour)	Bailey	1	Int. Sr.
A-59	Oriental Brushwork (colour)	E.B.	1¼	Int. Sr.
A-99	Painting a Province (New Brunswick) (colour)	N.F.B	2	Int. Sr

Call No.	Film Title	Producer	No. of Reels	Curr. Division
A-35	Painting Trees with Eliot O'Hara (colour)	E.B.	1½	Int. Sr.
A-67	Painting with Calligraphy (colour)	E.B.	1	Int. Sr.
A-22	Paper Sculpture (colour)	Crawley	½	Jr. Int.
A-42	Papier Mache Animals, How to Make (colour)	Bailey	1½	Jr.
A-75	Perspective Drawing (b & w)	U. Cal.	1	Sr.
A-26	Picture Making, Beginning of (colour)	Crawley	½	Pr.
A-27	Picture Making at the Gang Age (colour)	Crawley	½	Jr.
A-43	Picture Making by Teenagers (colour)	Crawley	1	Int. Sr.
A-7	Plastic Art (b & w)	E.B.	1	Int. Sr.
A-50	Poster Making: Design (colour)	Bailey	1	Jr. Int.
A-51	Potato Prints, How to Make (colour)	Bailey	1½	Jr. Int.
A-32	Potter's Wheel, The (b & w)	A. Moore	1	Int.
A-9	Primitive Painters of Charlevoix (Que.) (colour)	N.F.B.	2	Int. Sr.
A-76	Print with a Brayer (colour)	Bailey	¾	Int. Sr.
A-44	Puppet, How to Make a (colour)	Bailey	1	Jr.
A-10	Puppetry (b & w)	E.B.	1	Jr. Int.
A-52	Rembrandt (colour)	E.B.	2½	Int. Sr.
A-36	Rembrandt: Poet of Light (b & w)	I.F.B.	1½	Int. Sr.
A-45	Rhythm in Paint (colour)	E.B.	1	Jr. Int.
A-100	Rise of Greek Art (colour)	McG.-H.	1½	Sr.
A-33	Sculpture from Life (b & w)	A. Moore	1	Int.
A-37	Seasons, The (colour)	Crawley	1½	Int. Sr.
A-34	Silk Screen Print, How to Make a (b & w)	Bailey	2	Int.
A-77	Silk Screen Printing (b & w)	I.F.L.	2	Int. Sr.
A-60	Texture (colour)	E.B.	½	Jr.
A-12	Third Dimension (Sculpture)	N.F.B.	2	Int. Sr.
A-47	Torn Paper (colour)	Bailey	½	Jr. Int.
A-82	Toulouse Lautrec (b & w)	Pictura	1½	Sr.
A-83	Varley (colour)	N.F.B.	1½	Jr. Int.
A-68	Velazquez (colour)	T. Craven	1½	Sr.
A-78	Weeds and Mosaics (colour)	Bailey	½	Jr.
A-14	West Wind (colour)	N.F.B.	2	Int. Sr.
A-61	What is Art? (colour)	E.B.	½	Jr.
A-93	What Shall We Paint? (colour)	F.A.C.	1	Pr. Jr.
A-69	Wire and Paper Animals (colour)	Rank	1	Pr. Jr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
	COMMERCIAL			
C-1	Machine Transcription — Pt. I (b & w)	U.W.	3	Int. Sr.
C-2	Machine Transcription — Pt. II (b & w)	U.W.	1	Int. Sr.
C-10	Office Courtesy (colour)	E.B.	1½	Int.
C-11	Office Etiquette (b & w)	E.B.	1¼	Int.
C-3	Office Machines, Maintenance of (b & w)	U.W.	3	Int. Sr.
C-12	Office Teamwork (colour)	E.B.	1½	Int.
C-4	Secretary Takes Dictation (b & w)	Coronet	1	Int. Sr.
C-5	Secretary Transcribes (b & w)	Coronet	1	Int. Sr.
C-6	Type, Ready to (b & w)	Coronet	1	Int. Sr.
C-9	Typing Skills, Building (b & w)	Coronet	1	Int. Sr.
	ENGLISH			
E-53	Adventures of a Baby Fox (b & w)	E.B.	1¼	Pr.
E-79	Adventures of a Chipmunk Family (colour)	E.B.	1	Pr.
E-39	Ancient Mariner, The (b & w)	U. Cal.	3	Int. Sr.
E-103	Aristotle's Ethics, Book 1 — Theory of Happiness (colour)	E.B.	3	Sr.
E-104	Athens — The Golden Age (colour)	E.B.	3	Sr.
E-25	Autumn is an Adventure (colour)	Coronet	1	Pr.
E-54	Birds of Our Story Books (colour)	Coronet	1	Pr.
E-66	Brown Bears Go Fishing (colour)	Coronet	1	Pr.
E-80	Carpet Under Every Classroom (b & w)	Hoch	1½	Int. Sr.
E-21	Chucky Lou (colour)	Ind. U.	1	Pr.
E-81	Corral (b & w)	N.F.B.	1	Jr.
E-82	Cuckoo Clock that Wouldn't Cuckoo, The (colour)	Coronet	1	Pr.
E-113	David and Mr. Micawber (b & w)	Coronet	2	Sr.
E-11	Do Words Ever Fool You? (b & w)	Coronet	1	Int.
E-83	Elephant Boy (colour)	E.B.	1	Jr.
E-12	England, Background of Literature (colour)	Coronet	1	Int. Sr.
E-67	English Literature: Romantic Period (colour)	Coronet	1¼	Int. Sr.
E-84	English Literature: 17th Century (colour)	Coronet	1¼	Int. Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
E-29	English Lyrics (colour)	Coronet	1	Int. Sr.
E-26	Flipper the Seal (colour)	Coronet	1	Pr.
E-55	Fluffy the Ostrich (colour)	Coronet	1	Pr.
E-27	Frank and His Dog (colour)	E.B.	½	Pr.
E-14	Frisky, the Calf (b & w)	Coronet	1	Pr.
E-74	Frog Princess, The (colour)	E.B.	½	K. Pr.
E-47	Fun with Speech Sounds (b & w)	Coronet	1	Jr.
E-105	Glooscap Country (colour)	N.F.B.	1½	Jr.
E-40	Golden Axe, The (b & w)	E.B.	1	Pr.
E-56	Goldilocks and the Three Bears (colour)	Coronet	1	Pr.
E-106	Greek Lyric Poetry (colour)	E.B.	3	Sr.
E-90	Hamlet: The Age of Elizabeth (colour)	E.B.	3	Sr.
E-91	Hamlet: What Happens in Hamlet (colour)	E.B.	3	Sr.
E-92	Hamlet: The Poisoned Kingdom (colour)	E.B.	3	Sr.
E-93	Hamlet: The Readiness Is All (colour)	E.B.	3	Sr.
E-114	Hansel and Gretel (colour)	Bailey	1	Pr.
E-1	Hare and the Tortoise (b & w)	E.B.	1	Pr.
E-57	Hoppy, the Bunny (colour)	Coronet	1	Pr.
E-58	It's Fun to Read Books (b & w)	Coronet	1	Jr. Int.
E-28	Jean and Her Doll (colour)	E.B.	½	Pr.
E-2	Julius Caesar (Act III, Sc. 2) (b & w)	Rank	2	Int. Sr.
E-48	King Midas, Story of (colour)	Bailey	1½	Pr.
E-3	Know Your Library (b & w)	Coronet	1	Int.
E-16	Lady of the Lake (colour)	Coronet	1	Int. Sr.
E-75	Lake District, The (colour)	Rank	1¼	Int. Sr.
E-41	Let's Pronounce Well (b & w)	Coronet	1	Int.
E-68	Let's Try Choral Reading (b & w)	McG.-H.	1	Jr. Int.
E-107	Let's Write a Story (colour)	Churchill	1	Pr. Jr.
E-31	Listen Well, Learn Well (b & w)	Coronet	1	Int. Sr.
E-59	Little Black Lamb (b & w)	E. B.	1	Pr.
E-42	Little Gray Neck (b & w)	Off. F.	2	Pr.
E-22	Little Red Hen, The (colour)	Coronet	1	Pr.
E-30	Little Red Riding Hood (colour)	E.B.	1	Pr.
E-17	Longfellow (b & w)	E.B.	1½	Int. Sr.
E-36	Mark Twain and Tom Sawyer (b & w)	I.F.B.	1	Int.
E-49	Midsummer Night's Dream (colour)	Coronet	1¼	Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
E-115	Miller Grinds Wheat (colour)	E.B.	1	Pr.
E-69	Monkey Who Would Be King, The (b & w)	E.B.	1	Pr.
E-94	Morning on the Lievre (colour)	N.F.B.	1¼	Sr.
E-108	Musicians in the Woods (colour)	Coronet	1¼	Pr. Jr.
E-18	New England, Background of Literature (colour)	Coronet	1	Int. Sr.
E-95	The Novel: What It Is (colour)	E.B.	3¼	Sr.
E-96	The Novel: Early Victorian England and Charles Dickens (colour)	E.B.	3¼	Sr.
E-97	The Novel: Great Expectations — Part I (colour)	E.B.	3¼	Sr.
E-98	The Novel: Great Expectations — Part II (colour)	E.B.	3¼	Sr.
E-23	On Stage (b & w)	N.F.B.	3	Int. Sr.
E-43	One Rainy Day (b & w)	Coronet	1	Pr.
E-99	Parts of Speech (colour)	Coronet	1¼	Jr.
E-116	Pauline Johnson (colour)	Pioneer	¾	Int.
E-60	People of the Reindeer (b & w)	E.B.	1½	Pr.
E-109	Plato's Apology — The Life and Teachings of Socrates (colour)	E.B.	3	Sr.
E-44	Plays, How to Read (b & w)	Coronet	1	Int. Sr.
E-89	Preparing Your Book Report (colour)	Coronet	1	Jr. Int.
E-70	Prickly the Porcupine (colour)	Coronet	1	Pr.
E-76	Puss in Boots (b & w)	E.B.	1½	Pr. Jr.
E-6	Robinson Crusoe (b & w)	Col. Pic.	3	Jr.
E-32	Rumpelstiltskin (colour)	Coronet	1	Pr.
E-33	Sailing a Toy Boat (colour)	E.B.	½	Pr.
E-13	Scotland, Background of Literature (colour)	Coronet	1	Int. Sr.
E-77	Sea, The Background for Literature (colour)	Coronet	1	Int. Sr.
E-71	Shaggy, The Coyote (colour)	Coronet	1	Pr.
E-34	Shakespeare, Wm.: Background for His Works (b & w)	Coronet	2	Int. Sr.
E-61	Shakespeare, William (b & w)	E.B.	2¼	Int. Sr.
E-117	Shepherd, The (b & w)	N.F.B.	1	Jr. Int.
E-118	Shoemaker and the Elves (colour)	Coronet	1¼	Pr.
E-19	Sparky, the Colt (b & w)	Coronet	1	Pr.
E-8	Spelling is Easy (b & w)	Coronet	1	Jr. Int.
E-20	Spotty the Fawn (colour)	Coronet	1	Pr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
E-86	Spotty the Fawn in Winter (colour)	Coronet	1	Pr.
E-87	Stage Craft: Scenery Frame Construction (colour)	Coronet	1	Sr.
E-45	Story Acting is Fun (b & w)	Coronet	1	Jr. Int.
E-100	Story of a Book (colour)	Churchill	1	Jr.
E-50	Stratford Adventure, The (colour)	N.F.B.	3	Int. Sr.
E-78	Summer is an Adventure (colour)	Coronet	1	Pr.
E-35	Surprise for Jean (colour)	E.B.	½	Pr.
E-62	Tale of a Groundhog's Shadow (colour)	Coronet	1	Pr.
E-63	Tale of the Fiords (b & w)	E.B.	1	Int.
E-51	Three Fox Fables (b & w)	E.B.	1	Pr.
E-64	Three Little Pigs (colour)	Coronet	1	Pr.
E-101	Thumbelina (b & w)	Primrose	1	Pr. Jr.
E-72	Two Little Raccoons (b & w)	McG.-H.	1	Pr.
E-46	Ugly Duckling (colour)	Coronet	1	Pr. Jr.
E-110	Walker in the Snow (colour)	Pioneer	¾	Int. Sr.
E-10	We Discover the Dictionary (b & w)	Coronet	1	Jr.
E-52	We Discover the Library (b & w)	Coronet	1	Jr. Int.
E-37	Why Punctuate? (b & w)	McG.-H.	1	Jr. Int.
E-65	Winter is an Adventure (colour)	Coronet	1	Pr.
E-102	Woody Woodchuck's Adventure (colour)	E.B.	1	Pr.
E-73	Woolly the Lamb (colour)	Coronet	1	Pr.
E-88	Word Building in Our Language (colour)	Coronet	1	Jr. Int.
E-24	Wordsworth Country (b & w)	Rank	1½	Int. Sr.
E-111	Writing a Report (colour)	Coronet	1	Jr. Int.
E-112	You and Your Library (colour)	C.B.	1	Jr. Int.
E-38	Zoo Animals of Our Storybooks (colour)	Coronet	1	Pr.

GUIDANCE

Call No.	Film Title	Producer	No. of Reels	Curr. Division
G-1	Agriculture (b & w)	Mahnke	1	Int. Sr.
G-91	Allen Is My Brother (colour)	C.W.	1	Int. Sr.
G-80	Appointment with Youth (b & w)	Crawley	2¼	Int. Sr.
G-2	Aptitudes and Occupations (b & w)	Coronet	2	Int. Sr.
G-38	Are You Popular? (b & w)	Coronet	1	Int. Sr.
G-3	Automotive Service (b & w)	Mahnke	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
G-103	Beginning Responsibility: Doing Things by Ourselves in School (colour)	Coronet	1	Pr.
G-67	Beginning to Date (b & w)	E.B.	1	Int.
G-85	Being on Time (b & w)	Coronet	1	Pr. Jr.
G-49	Benefits of Looking Ahead (b & w)	Coronet	1	Int. Sr.
G-68	Better Use of Leisure Time (b & w)	Coronet	1	Int. Sr.
G-4	Bookkeeping and Accounting (b & w)	Mahnke	1	Int. Sr.
G-6	Brick and Stone Mason (b & w)	Mahnke	1	Int. Sr.
G-95	Careers in Agriculture (colour)	Coronet	1¼	Int. Sr.
G-86	Careers in the Building Trade (b & w)	Coronet	1	Int. Sr.
G-96	Chartered Accountant in Canada (b & w)	Crawley	1½	Int. Sr.
G-51	Cheating (b & w)	McG.-H.	1	Jr. Int.
G-39	Counselling: Its Tools and Techniques (b & w)		2	Int. Sr.
G-52	Country Magistrate (b & w)	N.F.B.	2	Int. Sr.
G-53	Courtesy for Beginners (b & w)	Coronet	1	Pr. Jr.
G-81	Courtesy, Words of (b & w)	McG.-H.	1	Pr. Jr.
G-7	Dairy Industry (b & w)	Mahnke	1	Int. Sr.
G-54	Date Etiquette (b & w)	Coronet	1	Int. Sr.
G-55	Decisions, Making Your Own (b & w)	Coronet	1	Int. Sr.
G-8	Dentistry, A Career (b & w)	A.D.A.	2	Int. Sr.
G-47	Developing Responsibility (b & w)	Coronet	1	Jr. Int.
G-69	Do Better on Your Examinations (b & w)	Coronet	1	Int. Sr.
G-9	Draughtsman, The (b & w)	Mahnke	1	Int. Sr.
G-11	Engineering (b & w)	Mahnke	1	Int. Sr.
G-40	Everyday Courtesy (b & w)	Coronet	1	Int.
G-41	Family Life (b & w)	Coronet	1	Int. Sr.
G-70	Farmer, The (colour)	E.B.	1¼	Int.
G-56	Feeling Left Out (b & w)	Coronet	1½	Int.
G-102	Finding Information (colour)	Churchill	1½	Int.
G-42	Finding the Right Job (b & w)	Coronet	1	Int. Sr.
G-12	Finding Your Life's Work (b & w)	Mahnke	2	Int. Sr.
G-13	Forest and Forest Industry (b & w)	Mahnke	1	Int. Sr.
G-71	Good Loser, The (b & w)	McG.-H.	1½	Int. Sr.
G-14	Heating and Ventilation (b & w)	Mahnke	1	Int. Sr.
G-92	Helping Johnny Remember (colour)	Portafilms	1	Pr. Jr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
G-93	High School Prom (colour)	Coronet	1½	Int. Sr.
G-57	High School — Your Challenge (b & w)	Coronet	1¼	Int. Sr.
G-15	Home Electrical Appliances (b & w)	Mahnke	1	Int. Sr.
G-72	Homework (b & w)	Coronet	1	Int. Sr.
G-58	Honest Truth, The (b & w)	N.F.B.	½	Int. Sr.
G-48	How to Keep a Job (b & w)	Coronet	1	Int. Sr.
G-87	How to Take a Test (b & w)	McG.-H.	1	Int. Sr.
G-104	Improving Your Study Habits (colour)	McG.-H.	1¼	Int. Sr.
G-17	I Want to be a Secretary (colour)	Coronet	1	Int. Sr.
G-18	Journalism (b & w)	Mahnke	1	Int. Sr.
G-88	Kindness to Others (b & w)	Coronet	1	Pr. Jr.
G-19	Laundry and Dry Cleaning (b & w)	Mahnke	1	Int. Sr.
G-74	Learning to Study (b & w)	E.B.	1½	Int. Sr.
G-20	Librarian, The (b & w)	Mahnke	1	Int. Sr.
G-43	Life Insurance Occupations (b & w)	L.U.	1	Int. Sr.
G-21	Machinist and Tool Maker (b & w)	Mahnke	1	Int. Sr.
G-59	Majority Vote, The (b & w)	N.F.B.	½	Int. Sr.
G-75	Making Friends (colour)	E.B.	1	Int. Sr.
G-44	Making the Most of School (b & w)	Coronet	1	Int.
G-97	Manners in Public (b & w)	McG.-H.	1	Jr.
G-76	Mind Your Manners (b & w)	Coronet	1	Int.
G-105	Nation Builders (colour)	Ont. Dept. of Mines	2½	Sr.
G-23	Nursing (b & w)	Mahnke	1	Int. Sr.
G-82	Occupations, Choosing Your (b & w)	Coronet	1	Int. Sr.
G-60	One Man's Opinion (b & w)	N.F.B.	½	Int. Sr.
G-89	Other People's Property (b & w)	McG.-H.	1	Jr. Int.
G-90	Other People's Things (b & w)	Coronet	1	Pr. Jr.
G-25	Painting and Decorating (b & w)	Mahnke	1	Int. Sr.
G-61	Personal Qualities for Job Success (b & w)	Coronet	1	Int. Sr.
G-26	Pharmacist, The (b & w)	Mahnke	1	Int. Sr.
G-27	Photography (b & w)	Mahnke	1	Int. Sr.
G-28	Plumbing (b & w)	Mahnke	1	Int. Sr.
G-29	Poultry Raising (b & w)	Mahnke	1	Int. Sr.
G-62	Procrastinator, The (b & w)	McG.-H.	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
G-30	Radio and Television (b & w)	Mahnke	1	Int. Sr.
G-63	Responsibility; Beginning — Taking Care of Things (b & w)	Coronet	1	Int. Sr.
G-31	Restaurant Operator (b & w)	Mahnke	1	Int. Sr.
G-64	School Activities and You (b & w)	Coronet	1	Int. Sr.
G-77	Selling as a Career (b & w)	Coronet	1	Sr.
G-32	Sheet Metal Worker (b & w)	Mahnke	1	Int. Sr.
G-45	Shy Guy (b & w)	Coronet	1¼	Int.
G-65	Shyness (b & w)	N.F.B.	2	Int. Sr.
G-33	Teaching (b & w)	Mahnke	1	Int. Sr.
G-34	Telephone and Telegraph (b & w)	Mahnke	1	Int. Sr.
G-35	Transportation (b & w)	Mahnke	1	Int. Sr.
G-98	Troublemaker, The (b & w)	McG.-H.	1¼	Int. Sr.
G-66	Vocations, How to Investigate (b & w)	Coronet	1	Int. Sr.
G-36	Welding Operator (b & w)	Mahnke	1	Int. Sr.
G-99	What About Prejudice? (b & w)	McG.-H.	1	Int. Sr.
G-100	What About School Spirit? (b & w)	McG.-H.	1¼	Int. Sr.
G-106	When I'm Old Enough — Goodbye (b & w)	U.S. Dept. of Labour	2	Int. Sr.
	Goodbye (b & w)	Carman		
G-37	Woodworker, The (b & w)	Mahnke	1	Int. Sr.
G-46	You and Your Work (b & w)	Coronet	1	Int. Sr.
G-101	You Can Go A Long Way (b & w)	N.F.B.	2	Int. Sr.
G-84	Your Table Manners (b & w)	McG.-H.	1	Jr. Int.

HEALTH AND SAFETY

Call No.	Film Title	Producer	No. of Reels	Curr. Division
H-94	About the Human Body (colour)	C.W.	1½	Int.
H-40	Alcohol and the Human Body (b & w)	E.B.	1½	Int. Sr.
H-72	Alexander Learns Good Health (colour)	Coronet	1	Pr.
H-41	Appreciating Our Parents (b & w)	Coronet	1	Pr.
H-42	Atomic Alert (b & w)	E.B.	2	Int. Sr.
H-61	Bacteria: Friend and Foe (colour)	E.B.	1	Int. Sr.
H-108	Be Water Wise (colour)	Sun Life	2	Jr. Int.
H-43	Bicycle Safety (b & w)	McG.-H.	1	Jr. Int.
H-1	Blood (b & w)	Rank	1	Int. Sr.
H-109	Boating and Good Sense (colour)	Sun Life	2	Jr. Int.
H-2	Body Defences Against Disease (b & w)	E.B.	1	Int. Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
H-3	Body Temperature, Control of (b & w)	E.B.	1	Int. Sr.
H-35	Common Cold (b & w)	E.B.	1	Int.
H-4	Defending the City's Health (b & w)	E.B.	1	Int. Sr.
H-5	Digestion of Foods (b & w)	E.B.	1	Int. Sr.
H-104	Discovery of Insulin (b & w)	N.F.B.	1½	Int. Sr.
H-88	Dress for Health (colour)	E.B.	1	Pr.
H-50	Driver Education (b & w)	G.M.	3	Int. Sr.
H-80	Ears and Hearing, The (b & w)	E.B.	1	Int. Sr.
H-68	Ears, Nose and Throat (b & w)	McG.-H.	1	Int. Sr.
H-69	Eat for Health (colour)	E.B.	1	Int.
H-30	Elimination (b & w)	Rank	1	Int.
H-81	Exercise for Happy Living (b & w)	E.B.	1	Jr. Int.
H-8	Eyes and Their Care (b & w)	E.B.	1	Int.
H-10	Eyes, Your (b & w)	McG.-H.	1	Int.
H-82	Fire Safety Is Your Problem (b & w)	McG.-H.	1	Pr. Jr.
H-51	First Aid on the Spot (b & w)	E.B.	1	Int. Sr.
H-62	Food for Freddy (colour)	N.F.B.	2	Jr. Int.
H-36	Glen Wakes Up (b & w)	McG.-H.	1	Pr.
H-73	Good Grooming for Girls (colour)	Coronet	1	Int. Sr.
H-44	Hair and Nails, Care of the (b & w)	E.B.	1	Pr.
H-95	Health Heroes: The Battle Against Disease (colour)	Coronet	1	Int.
H-96	Health In Our Community (colour)	E.B.	1½	Jr. Int.
H-89	Healthy Feet (colour)	Coronet	1	Int. Sr.
H-74	Healthy Lungs (b & w)	Coronet	1	Int.
H-97	Healthy Skin (colour)	Coronet	1	Jr.
H-12	Heart and Circulation, The (b & w)	E.B.	1	Int. Sr.
H-13	Heirs of Tomorrow (b & w)	N.F.B.	1	Int.
H-45	Heredity and Environment (b & w)	Coronet	1	Sr.
H-75	How Billy Keeps Clean (b & w)	Coronet	1	Int.
H-83	How Our Bodies Fight Disease (b & w)	E.B.	¾	Int.
H-76	Immunization (b & w)	E.B.	1	Int.
H-98	In Case of Fire (colour)	E.B.	2	Jr. Int.
H-105	It's Best to Know (b & w)	Alc. Research	1	Sr.
H-84	Keeping Clean and Neat (colour)	E.B.	1	Jr. Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
H-64	Learning About Our Bodies (colour)	Coronet	1	Jr. Int.
H-65	Let's Be At Home in the Water (colour)	Porta	1	Jr. Int.
H-37	Let's Play Fair (b & w)	Coronet	1	Jr.
H-31	Let's Play Safe (colour)	Porta	1	Pr. Jr.
H-91	Let's Think and Be Safe (colour)	Porta	1	Pr. Jr.
H-85	Live and Learn (b & w)	E.B.	1	Jr. Int.
H-92	Living and Growing (b & w)	C.W.	1	Pr.
H-70	Look Alert: Stay Unhurt (b & w)	N.F.B.	1½	Jr.
H-14	Mechanisms of Breathing (b & w)	E.B.	1	Int. Sr.
H-46	Muscle Strain, How to Avoid (b & w)	Bray	2	Int. Sr.
H-106	Muscles and Bones of the Body (colour)	Coronet	1	Int. Sr.
H-99	Nervous System (colour)	Coronet	1½	Int. Sr.
H-77	No Time to Spare (colour)	Life Ins.	1	Int. Sr.
H-86	Nose, Learning About Your (colour)	E.B.	1	Int. Sr.
H-66	One Little Indian (colour)	N.F.B.	1½	Pr. Jr.
H-47	Other Fellow's Feelings, The (b & w)	McG.-H.	1	Int.
H-110	Our Wonderful Ears and Their Care (colour)	Coronet	1	Jr. Int.
H-54	Outsider, The (b & w)	McG.-H.	1	Int. Sr.
H-32	Patty Learns to Stop, Look and Listen (colour)	Frith	1½	Jr.
H-55	Personal Health for Boys (b & w)	Coronet	1	Int. Sr.
H-56	Personal Health for Girls (b & w)	Coronet	1	Int. Sr.
H-16	Playground Safety (b & w)	Coronet	1	Jr.
H-33	Posture Habits (b & w)	Coronet	1	Jr.
H-107	Rescue Breathing (b & w)	Amer. Film Production	2	Int. Sr.
H-57	Respiration, External (colour)	Rank	1	Int. Sr.
H-58	Rules and Laws (b & w)	E.B.	1½	Jr. Int.
H-34	Safe Living at School (b & w)	Coronet	1	Int.
H-19	Safe Use of Tools (b & w)	Coronet	1	Int.
H-20	Safety in the Home (b & w)	E.B.	1	Int.
H-78	Safety in the School Building (colour)	Coronet	1	Pr.
H-59	Safety in the Street (b & w)	E.B.	1	Pr. Jr.
H-79	Safety in Winter (b & w)	Coronet	1	Jr.
H-93	Safety on the School Bus (colour)	E.B.	1	All
H-100	Safety on the Water (b & w)	N.F.B.	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
H-67	Skin, Care of the (b & w)	E.B.	1	Pr. Int.
H-48	Sleep for Health (b & w)	E.B.	1	Int.
H-87	Spinal Column, The (b & w)	E.B.	1	Int. Sr.
H-101	Taking Care of Myself (colour)	E.H.	1	Pr.
H-38	Teeth Are to Keep (b & w)	N.F.B.	1	Pr.
H-23	Teeth, The (b & w)	E.B.	1	Int.
H-24	Teeth, Your (b & w)	McG.-H.	1	Int.
H-102	That They May Live (colour)	Pyramid	1¾	Int. Sr.
H-71	Tobacco and the Human Body (b & w)	E.B.	1½	Int. Sr.
H-103	Tommy's Healthy Teeth (colour)	Coronet	1	Jr.
H-28	Water — Friend or Enemy? (colour)	I.A.F.	1	Int. Sr.
H-49	Why Won't Tommy Eat? (colour)	N.F.B.	2	Int.

HOME ECONOMICS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
HE-1	Baking Tea Biscuits (colour)	A.S.N.	1½	Int.
HE-12	Buying Food (b & w)	McG.-H.	1	Int. Sr.
HE-2	Clothing for Children (colour)	Coronet	1	Int.
HE-13	Cooking — Kitchen Safety (b & w)	McG.-H.	1	Int. Sr.
HE-14	Cooking — Measuring (b & w)	McG.-H.	1	Int. Sr.
HE-15	Cooking — Planning and Organization (b & w)	McG.-H.	1	Int. Sr.
HE-3	Cooking, Principles of (b & w)	E.B.	1	Int. Sr.
HE-4	Cotton Clothing, Making of (b & w)	E.B.	1	Int. Sr.
HE-26	Flaxen Heritage (colour)	Singleton	1½	Int. Sr.
HE-6	Food and Nutrition (b & w)	E.B.	1	Int. Sr.
HE-28	Four Families (b & w)	N.F.B.	6	Int. Sr.
HE-29	Frustrating Fours and Fascinating Fives (colour)	N.F.B.	2	Sr.
HE-30	He Acts His Age (b & w)	N.F.B.	1½	Int. Sr.
HE-7	Home Canning (b & w)	N.Y. State	1	Int. Sr.
HE-8	Home Nursing (b & w)	Coronet	1	Int. Sr.
HE-22	How to Get Fabric Ready for Sewing (b & w)	Home Craft	1½	Int. Sr.
HE-18	Jam and Jelly Session (colour)	Crawley	1	Int. Sr.
HE-31	New Baby, The (b & w)	N.F.B.	2	Int. Sr.
HE-23	Pattern Types (b & w)	Home Craft	1½	Int. Sr.
HE-32	Roots of Happiness (b & w)	Mental Hlth.	3	Int. Sr.
HE-24	Selection of Pattern and Fabric (b & w)	Home Craft	1½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
HE-33	Terrible Twos and Trusting Threes (colour)	N.F.B.	2	Sr.
HE-27	Tips for Tables (colour)	Singleton	1¼	Int. Sr.
HE-34	Wedding Day (b & w)	N.F.B.	2½	Int. Sr.
HE-25	Why Foods Spoil (colour)	E.B.	1½	Int.
HE-19	Why Study Home Economics? (b & w)	McG.-H.	1	Int. Sr.

INDUSTRIAL ARTS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
IA-1	Drafting Tips (b & w)	Penn. St.	2	Int. Sr.
IA-7	Drilling and Boring Tools (b & w)	McG.-H.	1	Int. Sr.
IA-2	Filing, Fundamentals of (b & w)	U.W.	1	Int. Sr.
IA-3	Focus on Industrial Arts (colour)	Tor. Bd.	2	Int. Sr.
IA-5	Machines, Simple (b & w)	E.B.	1	Int. Sr.
IA-8	Safe Shop (b & w)	McG.-H.	1	Int. Sr.
IA-6	Vernier Scale (b & w)	U.W.	2	Int. Sr.
IA-9	Why Study Industrial Arts (b & w)	McG.-H.	1	Int. Sr.
IA-10	Wood Finishing (b & w)	McG.-H.	1	Int. Sr.

LANGUAGE

Call No.	Film Title	Producer	No. of Reels	Curr. Division
L-9	Claudius: Boy of Ancient Rome (colour)	E.B.	1½	Int. Sr.
L-2	Cours Primaire De Francais (b & w)	U. of T.	1	Int. Sr.
L-3	Latin?, Why Study (b & w)	Coronet	1	Int. Sr.
L-4	Le Francais Par Le Film (Lesson 1) (b & w)	Rank	2	Int. Sr.
L-5	Le Francais Par Le Film (Lesson 2) (b & w)	Rank	2	Int. Sr.
L-6	Le Francais Par Le Film (Lesson 3) (b & w)	Rank	2	Int. Sr.
L-7	A Paris (b & w)	I.F.B.	1½	Int. Sr.
L-8	Tan-Gau Method, The (colour)	C.E.C.	3	Jr. Int.

MATHEMATICS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
M-1	Areas (b & w)	K. Bldrs.	1	Int.
M-25	Big Numbers — Little Numbers (colour)	F.A.C.	1	Int.
M-26	Concept of Function (b & w)	McG.-H.	1½	Sr.
M-9	Division is Easy (colour)	Coronet	1	Jr.
M-19	Donald in Mathmagic Land (colour)	Disney	2¼	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
M-5	Geometry and You (b & w)	Coronet	1	Int.
M-27	Irrational Numbers (b & w)	McG.-H.	2	Sr.
M-15	Let's Measure: Inches, Feet, Yards (b & w)	Coronet	1	Pr.
M-16	Let's Measure: Ounces, Pounds, Tons (b & w)	Coronet	1	Pr. Jr.
M-17	Let's Measure: Pints, Quarts, Gallons (b & w)	Coronet	1	Pr. Jr.
M-2	Locus (b & w)	K. Bldrs.	1	Int. Sr.
M-28	Mathematics for Tomorrow (colour)	N.E.A.	3	
M-6	Meaning of Percentage (b & w)	McG.-H.	1	Int.
M-10	Meaning of Pi (b & w)	Coronet	1	Int.
M-7	Measurement (b & w)	Coronet	1	Int.
M-20	Measuring Areas (colour)	Coronet	1	Int.
M-21	Metric System, The (colour)	Coronet	1	Int. Sr.
M-11	Multiplication is Easy (b & w)	Coronet	1	Jr.
M-29	Number Fields (b & w)	McG.-H.	1½	Sr.
M-12	Number System, The (colour)	E.B.	1	Pr. Jr.
M-22	Pythagorean Theorem: The Cosine Formula (b & w)	Coronet	½	Int. Sr.
M-23	Pythagorean Theorem: Proof of Area (b & w)	Coronet	½	Int. Sr.
M-3	Rectilinear Co-ordinates (b & w)	K. Bldrs.	1	Int. Sr.
M-30	Sentences and Solutions Sets (b & w)	McG.-H.	2	Sr.
M-24	Story of Our Number System (colour)	Coronet	1	Int.
M-13	Subtraction is Easy (b & w)	Coronet	1	Jr.
M-8	We Discover Fractions (b & w)	Coronet	1	Jr.
M-18	What are Fractions? (b & w)	E.B.	1	Jr.
M-4	What is Four? (b & w)	McG.-H.	2	Pr.
M-14	What Time Is It? (b & w)	Coronet	1	Pr.

MUSIC

Call No.	Film Title	Producer	No. of Reels	Curr. Division
Mu-1	Aida (b & w)	Cwth.	1	Int. Sr.
Mu-39	Appassionata Fantasy (b & w)	A.F.	1	Int. Sr.
Mu-53	Artist's Life (b & w)	Rondo	½	Int. Sr.
Mu-45	Beethoven and His Music (colour)	Coronet	1¼	Int.
Mu-51	Brahms and His Music (colour)	Coronet	1¼	Int.
Mu-2	Brass Choir, The (colour)	E.B.	1½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
Mu-50	Conducting Good Music (b & w)	E.B.	1¼	Int. Sr.
Mu-34	Countryside Melodies (colour)	Aud. Pro.	1	Int. Sr.
Mu-3	Emmanuel Feuermann (cellist) (b & w)	Art. F.	1	Int. Sr.
Mu-52	Handel and His Music (colour)	Coronet	1½	Int.
Mu-5	Hymnalogue (colour)	Art. F.	1	Int. Sr.
Mu-6	Igor Gorin (Baritone) (b & w)	Art. F.	1	Int. Sr.
Mu-35	In a Monastery Garden (b & w)	Aud. Pro.	1	Int. Sr.
Mu-7	Instruments of the Orchestra (b & w)	B.I.S.	2	Int. Sr.
Mu-48	Listening to Good Music (b & w)	E.B.	1½	Int. Sr.
Mu-27	Lucia Di Lammermoor (b & w)	R.O.F.	1	Int. Sr.
Mu-54	Man of Music (b & w)	N.F.B.	1½	Int. Sr.
Mu-28	Metropolitan Quartette (b & w)	Pictor.	1	Int. Sr.
Mu-13	Mildred Dilling (Harpist) (b & w)	Art. F.	1	Int. Sr.
Mu-14	Moonlight Sonata — Minuet in G (b & w)	Off. F.	1	Int. Sr.
Mu-46	Mozart and His Music (colour)	Coronet	1¼	Int.
Mu-15	Music in the Wind (b & w)	N.F.B.	1	Int. Sr.
Mu-16	Overture to Rosamunde (b & w)	Cwth.	1	Int. Sr.
Mu-17	Overture 1812 — Tschaikowsky (b & w)	Cwth.	1½	Int. Sr.
Mu-18	Pagliacci (b & w)	Traf.	2½	Int. Sr.
Mu-19	Percussion Group, The (b & w)	E.B.	1	Int. Sr.
Mu-49	Playing Good Music (b & w)	E.B.	1¼	Int. Sr.
Mu-37	Rhythm — Instruments and Movements (b & w)	E.B.	1	Pr.
Mu-42	Saxophone in Concert, The (b & w)	Art. F.	1	Int. Sr.
Mu-47	Schubert and His Music (colour)	Coronet	1¼	Int.
Mu-30	Sounds of Music (b & w)	Coronet	1	Int.
Mu-21	String Choir, The (b & w)	E.B.	1	Int. Sr.
Mu-22	Symphony Orchestra, The (b & w)	E.B.	1	Int. Sr.
Mu-55	Thousand and One Nights, A (b & w)	Rondo	½	Int. Sr.
Mu-56	Trumpet, Horn and Trombone (colour)	Coronet	1	Int. Sr.
Mu-24	Valse Brillante in A Flat (b & w)	Hoff.	1	Int. Sr.
Mu-44	Violin, Story of the (b & w)	N.F.B.	2	Int. Sr.
Mu-38	Vocal Music (b & w)	E.B.	1	Int. Sr.
Mu-25	Vronsky and Babin (b & w)	Art. F.	1	Int. Sr.
Mu-31	William Primrose, Violist (b & w)	Picto.	1	Int. Sr.
Mu-32	William Tell (b & w)	Richfd.	3	Int. Sr.
Mu-23	Woodwind Choir, The (b & w)	E.B.	1	Int. Sr.

PHYSICAL EDUCATION

Call No.	Film Title	Producer	No. of Reels	Curr. Division
PE-34	American Square Dance (b & w)	Coronet	1	Int.
PE-1	Analysis of Agility Exercises (b & w)	Rank	1	Int.
PE-42	Archery for Girls (b & w)	Coronet	1	Int. Sr.
PE-51	Badminton Fundamentals (outdoor play) (b & w)	Coronet	1	Int. Sr.
PE-71	Badminton, Fundamentals of (indoor play) (b & w)	A.A. Prod.	1	Int. Sr.
PE-5	Baseball, Catching in (b & w)	E.B.	1	Int. Sr.
PE-88	Basketball for Boys: Fundamentals (b & w)	Bailey	1	Int.
PE-89	Basketball for Boys: Team Play (b & w)	Bailey	1	Int. Sr.
PE-43	Basketball for Girls: Fundamental Techniques (b & w)	Coronet	1	Int. Sr.
PE-44	Basketball for Girls: Game Play (b & w)	Coronet	1	Int. Sr.
PE-72	Basketball for the Millions (b & w)	Off. Sp.	2½	Int. Sr.
PE-3	Basketball Fundamentals (b & w)	Coronet	1½	Int. Sr.
PE-73	Dance Your Own Way (colour)	Cal. U.	1	Pr. Jr.
PE-90	Development of Movement Themes in Gymnasium (b & w)	Swift	2	Sr.
PE-7	Distance Races (b & w)	E.B.	1	Int. Sr.
PE-69	Exploring Your Growth (colour)	C.W.	1	Int.
PE-45	Football, Assoc. — Methods of Coaching Soccer (b & w)	Rank	1	Int. Sr.
PE-10	Football, Ball Handling in (b & w)	E.B.	1	Int. Sr.
PE-11	Football, Blocking in (b & w)	E.B.	1	Int. Sr.
PE-12	Football, Tackling in (b & w)	E.B.	1	Int. Sr.
PE-60	Hockey: Checking (b & w)	Crawley	¾	Jr. Int.
PE-61	Hockey: Defensive Teamplay (b & w)	Crawley	1	Jr. Int.
PE-62	Hockey: Goal Tending (b & w)	Crawley	1	Jr. Int.
PE-63	Hockey: Offensive Teamplay (b & w)	Crawley	¾	Jr. Int.
PE-64	Hockey: Passing (b & w)	Crawley	1	Jr. Int.
PE-65	Hockey: Shooting (b & w)	Crawley	1	Jr. Int.
PE-66	Hockey: Skating (b & w)	Crawley	¾	Jr. Int.
PE-67	Hockey: Stick Handling (b & w)	Crawley	¾	Jr. Int.
PE-76	Lawn Tennis — Instruction at Wimbledon Part I (b & w)	C.F.I.	2	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
PE-77	Lawn Tennis — Instruction at Wimbledon Part II (b & w)	C.F.I.	2	Int. Sr.
PE-91	Movement Speaks (b & w)	Yorkshire	1¾	Jr. Sr.
PE-47	Parade of Champions (colour)	Crawley	2	Int. Sr.
PE-48	Physical Education — Rural School (Indoors) (colour)	Crawley	1	Jr. Int.
PE-49	Physical Education — Rural School (Outdoors) (colour)	Crawley	1	Jr. Int.
PE-18	Physical Training — Girls (b & w)	Rank	2	Int. Sr.
PE-19	Play Baseball, Son (b & w)	McG.-H.	1½	Int.
PE-20	Play Volleyball (b & w)	Ass. F.	2	Int. Sr.
PE-75	Practice Makes Perfect (b & w)	A.A. Prod.	2	Int. Sr.
PE-74	Ready . . . Wrestle (b & w)	Ill. B.T.	2	Int. Sr.
PE-39	Skating, Figure (b & w)	N.F.B.	1	Jr. Int.
PE-59	Softball for Girls (b & w)	Coronet	1	Int.
PE-40	Speedball for Girls (b & w)	Coronet	1	Int.
PE-23	Swimming and Diving Aces (b & w)	U.W.	1	Int. Sr.
PE-24	Swimming — Advanced (b & w)	Off. Sp.	1	Int. Sr.
PE-25	Swimming — Beginners (b & w)	Off. Sp.	1	Jr.
PE-26	Swimming Techniques for Boys (b & w)	Coronet	1½	Int.
PE-28	Tennis — Advanced (b & w)	Off. Sp.	1	Int. Sr.
PE-78	Tennis, Beginning (b & w)	C.F.I.	1¼	Int.
PE-85	Tissues of the Human Body (colour)	Churchill	1½	Int. Sr.
PE-56	Track and Field, Fundamentals of (b & w)	E.B.	2¼	Int. Sr.
PE-79	Track and Field: Broad Jump (b & w)	Ryan	1½	Int. Sr.
PE-80	Track and Field: Discus (b & w)	Ryan	1½	Int. Sr.
PE-81	Track and Field: High Jump (b & w)	Ryan	1½	Int. Sr.
PE-82	Track and Field: Hurdles (b & w)	Ryan	1½	Int. Sr.
PE-83	Track and Field: Pole Vault (b & w)	Ryan	1½	Int. Sr.
PE-84	Track and Field: Shot Put (b & w)	Ryan	1½	Int. Sr.
PE-92	Trampoline Fundamentals (b & w)	Bailey	1	Int. Sr.
PE-31	Tumbling — Advanced (b & w)	Coronet	1	Int. Sr.
PE-41	Tumbling — Beginners (b & w)	Coronet	1	Int. Sr.
PE-30	Tumbling — Intermediate (b & w)	Coronet	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
PE-33	Volleyball for Boys (b & w)	Coronet	1	Int.
PE-68	Volleyball for Girls: Techniques (b & w)	McG.-H.	1	Jr. Int.
PE-86	Volleyball Drills (colour)	All Amer.	1½	Int. Sr.
PE-87	Volleyball Skills (colour)	All Amer.	1½	Int. Sr.
PE-32	Weight Events (b & w)	E.B.	1	Int. Sr.
PE-93	Weight Training (colour)	Ed. Horiz	1	Int. Sr.
PE-94	Wrestling: Escapes and Reversals (b & w)	Colburn	1	Int. Sr.
PE-95	Wrestling: Breakdowns and Pinning Combinations (b & w)	Colburn	1	Int. Sr.

SCIENCE—Agriculture

SA-1	Animals of the Farm (colour)	Mahnke	1	Pr.
SA-17	Apples (colour)	E.B.	1	Int.
SA-22	Corn Farmer, The (colour)	E.B.	1¼	Int.
SA-3	Dairy Farm (colour)	Coronet	1½	Jr. Int.
SA-4	Day at the Fair (b & w)	E.B.	1	Jr.
SA-20	Eggs (b & w)	E.B.	1	Int.
SA-5	Farm Animals (b & w)	E.B.	1	Pr. Jr.
SA-23	Farm Calendar (b & w)	N.F.B.	3	Int. Sr.
SA-15	Farm Forestry (colour)	Shelley	1	Int. Sr.
SA-9	Irrigation Farming (b & w)	E.B.	1	Int.
SA-18	More Power to the Farmer (colour)	Hydro	2	Int.
SA-12	Pig Tales (colour)	Frith	1	Pr. Jr.
SA-13	Poultry on the Farm (b & w)	E.B.	1	Pr. Jr.
SA-7	Pride, The Saddle Horse (b & w)	E.B.	1	Int.
SA-24	Revolution on the Land (b & w)	N.F.B.	3	Int. Sr.
SA-21	Science and Agriculture (b & w)	E.B.	1	Int. Sr.
SA-16	Trees, Return of the (colour)	Gibson	2	Int.
SA-14	Vegetable Insects (colour)	N.F.B.	2	Int. Sr.
SA-19	World at Your Feet (colour)	N.F.B.	2	Int. Sr.

SCIENCE—Biology

SB-32	Above the Timberline (Ecology) (colour)	N.F.B.	1½	Sr.
SB-47	Adaptive Radiation — The Mollusks (colour)	E.B.	1¾	Int. Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SB-97	Amphibian Embryo: Frog and Salamander (colour)	E.B.	1½	Sr.
SB-48	Angiosperms — The Flowering Plants (colour)	E.B.	1¼	Int. Sr.
SB-93	Animals Breathe in Many Ways (colour)	F.A.C.	1	Sr.
SB-26	Animals with Backbones (colour)	Coronet	1	Int.
SB-39	Around a Big Lake (colour)	I.F.B.	1¾	Int. Sr.
SB-38	Arthropods: Insects and Their Relatives (colour)	Coronet	1	Int. Sr.
SB-77	Bacteria (colour)	E.B.	2	Int. Sr.
SB-78	Beginnings of Vertebrate Life (colour)	E.B.	1	Int. Sr.
SB-40	Biology in Today's World (colour)	Coronet	1	Int. Sr.
SB-14	Biology, Introduction to (b & w)	E.B.	1¼	Int.
SB-49	Blood (colour)	E.B.	1½	Int. Sr.
SB-50	Cave Community (colour)	E.B.	1¼	Int. Sr.
SB-51	Chick Embryo: From Primitive Streak to Hatching (colour)	E.B.	1¼	Int. Sr.
SB-52	Community (colour)	E.B.	1	Int. Sr.
SB-43	Conservation and Balance of Nature (colour)	I.F.B.	2	Sr.
SB-15	Crayfish (b & w)	U.W.	1	Int. Sr.
SB-21	Crustaceans (colour)	E.B.	1¼	Int. Sr.
SB-53	Desert (colour)	E.B.	2	Int. Sr.
SB-79	Distribution of Plants and Animals (colour)	E.B.	1¾	Sr.
SB-54	DNA: Molecule of Heredity (colour)	E.B.	1½	Int. Sr.
SB-16	Earthworm, The (b & w)	Rank	1	Int. Sr.
SB-55	Echinoderms — Sea Stars and Their Relatives (colour)	E.B.	1¾	Int. Sr.
SB-80	Evolution of Vascular Plants — The Fern (b & w)	E.B.	1½	Int. Sr.
SB-56	First Many-Celled Animals — Sponges (colour)	E.B.	1½	Int. Sr.
SB-81	Fish Embryo: From Fertilization to Hatching (colour)	E.B.	1¼	Int. Sr.
SB-82	Flatworms (colour)	E.B.	1½	Int. Sr.
SB-44	Floral Capers (colour)	Ruddell	1	Sr.
SB-57	Fundamentals of the Nervous System (colour)	E.B.	1½	Int. Sr.
SB-58	Fungi (colour)	E.B.	1½	Int. Sr.
SB-99	Gene Action (colour)	E.B.	2	Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SB-12	Gift of Green, The (colour)	S.R.F.	1½	Int. Sr.
SB-59	Grasslands (colour)	E.B.	1½	Int. Sr.
SB-83	Growth of Plants (colour)	E.B.	2	Int. Sr.
SB-60	Gymnosperms (colour)	E.B.	1½	Int. Sr.
SB-41	Hibernation and Other Forms of Dormancy (colour)	E.B.	1	Int. Sr.
SB-61	High Arctic Biome (colour)	E.B.	2	Int. Sr.
SB-27	How Green Plants Make and Use Food (colour)	Coronet	1	Int. Sr.
SB-94	How Pine Trees Reproduce (colour)	E.B.	1	Sr.
SB-33	Hydra (b & w)	Rank	1¾	Sr.
SB-45	Invertebrates (colour)	Coronet	1¼	Sr.
SB-62	Joint Legged Animals — Arthropods (colour)	E.B.	1½	Int. Sr.
SB-84	Laws of Heredity (colour)	E.B.	1¼	Int. Sr.
SB-34	Let's Look at Weeds (Ecology) (colour)	N.F.B.	1¾	Int. Sr.
SB-13	Life in a Pond (colour)	Coronet	1	Int. Sr.
SB-46	Life in the Deciduous Forest (colour)	I.F.B.	2	Sr.
SB-42	Life in the Desert (colour)	E.B.	1	Int. Sr.
SB-3	Life of a One-celled Animal (b & w)	Rank	1	Sr.
SB-85	Meiosis: Sex Cell Formation (colour)	E.B.	1½	Int. Sr.
SB-95	Metamorphosis: Life Story of a Wasp (colour)	E.B.	1¼	Int.
SB-29	Microscopic Life (b & w)	E.B.	1¼	Int.
SB-63	Mitosis (colour)	E.B.	2	Int. Sr.
SB-98	Natural Selection (colour)	E.B.	2	Sr.
SB-4	Nervous System (b & w)	E.B.	1	Int. Sr.
SB-86	Origins of Land Plants — Liverworts and Mosses (colour)	E.B.	1¼	Int. Sr.
SB-17	Paramecium (b & w)	Rank	1	Int. Sr.
SB-87	Parasitism — Parasitic Flatworms (colour)	E.B.	1½	Int. Sr.
SB-88	Photosynthesis (colour)	E.B.	2	Int. Sr.
SB-100	Physical Environment (colour)	E.B.	2	Sr.
SB-89	Plankton and the Open Sea (colour)	E.B.	2¼	Int. Sr.
SB-5	Plants, Climbing (b & w)	Rank	2	Int. Sr.
SB-6	Plants, How They Feed (b & w)	Rank	1	Int. Sr.
SB-18	Plant Survival (b & w)	U.W.	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SB-35	Plants That Grow from Leaves, Stems and Roots (colour)	Coronet	1	Int. Sr.
SB-8	Pond Life, Interdependence of (b & w)	Rank	1	Int. Sr.
SB-101	Population Ecology (colour)	E.B.	2	Sr.
SB-36	Project Muskie (colour)	Ash. Crip.	1½	Int. Sr.
SB-23	Protozoa (colour)	E.B.	1	Sr.
SB-30	Reproduction of Plants (colour)	Coronet	1¼	Int. Sr.
SB-90	Sea, The (colour)	E.B.	2¼	Int. Sr.
SB-64	Seed Germination (colour)	E.B.	1¼	Int. Sr.
SB-65	Segmentation — The Annelid Worms (colour)	E.B.	1½	Int. Sr.
SB-10	Self Defence by Plants (b & w)	Rank	1	Int. Sr.
SB-31	Simple Plants, Algae and Fungi (colour)	Coronet	1¼	Sr.
SB-66	Simple Plants — the Algae (colour)	E.B.	1½	Int. Sr.
SB-67	Single Celled Animals — Protozoa (colour)	E.B.	1½	Int. Sr.
SB-68	Social Insects: The Honeybee (colour)	E.B.	2¼	Int. Sr.
SB-19	Spiders and Their Allies (Arachnids) (b & w)	Rank	1	Int. Sr.
SB-24	Spruce Bog (colour)	N.F.B.	2¼	Sr.
SB-69	Stinging Celled Animals — Coelenterates (colour)	E.B.	1½	Int. Sr.
SB-70	Succession — From Sand Dune to Forest (colour)	E.B.	1½	Int. Sr.
SB-25	Sunfish, The (b & w)	E.B.	1	Int. Sr.
SB-71	Temperate Deciduous Forest (colour)	E.B.	1½	Int. Sr.
SB-72	Tropical Rain Forest (colour)	E.B.	1½	Int. Sr.
SB-20	Trout, Life Cycle of (b & w)	U.W.	1	Int. Sr.
SB-96	Trout Stream (colour)	N.F.B.	1	Int. Sr.
SB-91	What is a Fish? (colour)	E.B.	2	Int. Sr.
SB-92	What is a Mammal? (colour)	E.B.	1¼	Sr.
SB-73	What is an Amphibian? (colour)	E.B.	1	Int. Sr.
SB-74	What is a Bird? (colour)	E.B.	1½	Int. Sr.
SB-75	What is a Reptile? (colour)	E.B.	1¾	Int. Sr.
SB-76	What is Ecology? (colour)	E.B.	1	Int. Sr.
SB-37	Worms (annelida) (b & w)	E.B.	1¼	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
	SCIENCE—Chemistry			
SC-1	Catalysis (b & w)	E.B.	1	Int. Sr.
SC-20	Chemical Changes (colour)	McG.-H.	1½	Sr.
SC-2	Chemistry and a Changing World (b & w)	E.B.	1	Int. Sr.
SC-13	Chemistry, Preface to (colour)	E.B.	1½	Int. Sr.
SC-17	Colloidal State, The (colour)	Coronet	1¼	Sr.
SC-14	Colloids (b & w)	E.B.	1	Sr.
SC-3	Electrochemistry (b & w)	E.B.	1	Int. Sr.
SC-16	Flowing Solids (catalysis) (colour)	Imp. Oil	2	Int. Sr.
SC-9	Halogens (colour)	Coronet	1	Int. Sr.
SC-18	Ionization, Principles of (colour)	Coronet	1¼	Sr.
SC-4	Molecular Theory of Matter (b & w)	E.B.	1	Int. Sr.
SC-21	Nitrogen and Living Things (colour)	U.W.	1¼	Sr.
SC-5	Oxidation and Reduction (b & w)	E.B.	1	Int. Sr.
SC-10	Oxygen (b & w)	Coronet	1	Int. Sr.
SC-11	Soap (b & w)	E.B.	1	Int. Sr.
SC-22	Story of Heat (colour)	U.W.	1¼	Sr.
SC-12	Synthetic Fibres (Nylon and Rayon) (b & w)	E.B.	1¼	Int. Sr.
SC-15	Using the Laboratory (b & w)	Coronet	1	Int. Sr.
SC-7	Water, Mysteries of (b & w)	K. Bldrs.	1	Int. Sr.
SC-8	Water, Properties of (colour)	Coronet	1	Int. Sr.
SC-19	World of Molecules, The (colour)	C.W.	1	Jr. Int.

CHEMISTRY SERIES

This is an Encyclopaedia Britannica Film series with each film being one half hour in length. Recommended for use at the Senior grade level. All films are in colour.

C-1	Introduction (Chemistry Series)
C-2	Classifying Matter — The Need
C-3	The Physical States of Matter
C-4	Classifying Matter — A Method
C-5	Atoms and Molecules
C-6	A Chemical Reaction and Its Equation
C-7	Combustion — Molecules in Action
C-8	Atoms and Their Weights
C-9	Oxygen: The Earth's Most Abundant Element
C-10	Molecules and Their Weights
C-11	Weighing — The Analytical Balance

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
C-12	The Mole Concept			
C-13	Using the Mole Concept			
C-14	The Empirical Formula of a Compound:			
C-15	Brief Review, Lessons 1–14 and a First Look at Hydrogen			
C-16	Mole and Weight Relationships in Chemical Reactions			
C-17	Laws of Stoichiometry and the Atomic Theory			
C-18	Introduction to Gas Behavior			
C-19	Gas Pressure: Origin and Measurement			
C-20	Partial Pressures: Boyle's Law			
C-21	The "Gas" Temperature Scale: Absolute Zero			
C-22	Gas Law Calculations — How Errors Arise in Experiments			
C-23	Speeds of Molecules — Gaseous Diffusion			
C-24	Standard Temperature and Pressure — Gas Density and Molar Volume			
C-25	Determination of Molecular Weights of Gases			
C-26	Formulas: Empirical and Molecular Using Molar Volumes			
C-27	Determination of Molecular Weights of Liquids and Solids			
C-28	Number-Weight-Volume Relationships — A Review			
C-29	A First Look at Atomic Structure			
C-30	The Nucleus and the Neutral Atom			
C-31	Electronic Arrangements — The Inert Gases			
C-32	The Formation of Ionic Compounds			
C-33	Ionic Compounds and Ionic Binding			
C-34	Covalent Binding			
C-35	Ionic and Covalent Binding Contrasted			
C-36	Water, Its Structure. Polar Molecules			
C-37	Water: Some of Its Properties			
C-38	Water: Its Peculiar Properties — Table Salt: Its Structure			
C-39	Ionic Compounds and Electrical Conductivity			
C-40	Ionic Compounds Continued Precipitation			
C-41	How Salts Dissolve in Water			
C-42	Hydrogen Chloride. Preparation and Properties			
C-43	Acids and Bases. An Introduction			
C-44	Developing an Acid-Base Theory			
C-45	A Typical Acid-Base Reaction-Indicators			
C-46	Relative Strength of Acids and Bases			
C-47	Construction of an Acid-Base Table			
C-48	Using an Acid-Base Table			
C-49	Making Solutions of Known Concentration			
C-50	An Acid-Base Titration			
C-51	Titration of a Weak Acid-Calculations			
C-52	Dynamic Equilibrium			
C-53	Chemical Equilibrium — A Typical Weak Acid			
C-54	A Summary of Equilibrium Principles			

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
C-55	The Le Chatelier Principle			
C-56	Application of the Le Chatelier Principle			
C-57	The pH Scale			
C-58	Buffer Solutions Review			
C-59	Thermochemistry Temperature and Reaction Extents			
C-60	Rates of Chemical Reactions			
C-61	Temperature Reaction Rates and Reaction Extents			
C-62	Laboratory Techniques and Apparatus — I			
C-63	Laboratory Techniques and Apparatus — II			
C-64	Covalent Binding — A Review — Its Geometry			
C-65	Carbon			
C-66	Multiplicity of Carbon Compounds			
C-67	Geometry of Carbon Compounds — Isomerism			
C-68	Alkanes — The Saturated Hydrocarbons			
C-69	Petroleum			
C-70	Gasoline and Motor Fuels			
C-71	Alkenes and Alkynes — The Unsaturated Hydrocarbons			
C-72	Alcohols			
C-73	Compounds Containing the Carbonyl Group			
C-74	Organic Compounds Containing Nitrogen			
C-75	Dyes — Some Principles of Organic Synthesis			
C-76	Synthetic Polymers I			
C-77	Synthetic Polymers II			
C-78	Natural Polymers — Carbohydrates and Proteins			
C-79	Biochemistry — A General View			
C-80	Carbohydrates and Fats			
C-81	Proteins — Enzymes			
C-82	Chemical Reactions in Higher Plants			
C-83	Chemical Reactions in the Animal Body			
C-84	Some Typical Biochemical Laboratory Tests			
C-85	Structural Properties of Simple Ions			
C-86	Reactivities of Atoms and The Periodic Table			
C-87	A Family of Elements — The Alkali Metals			
C-88	The Alkali Metals — Oxidation-Reduction			
C-89	The Alkaline Earth Metals			
C-90	Groups IA and IIA Compared			
C-91	Soluble and Insoluble Salts			
C-92	Precipitation Reactions			
C-93	Equilibrium in Saturated Solutions of Salts — Calcium Carbonate			
C-94	The Chemistry of Lime			
C-95	Hard Water — Its Formation			
C-96	Hard Water — Its Treatment Ion Exchange			
C-97	Precipitation and Inorganic Synthesis			

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
C-98	Washing Soda, Soap and Synthetic Detergents			
C-99	The Chemistry of Sodium Bicarbonate			
C-100	The Ammonia Soda Process			
C-101	Experiments With Acidic Cations			
C-102	Introduction to Ion Hydration			
C-103	Colours of Aquo Complex Ions — Coordination Number			
C-104	Relating Structural and Chemical Properties — An Example			
C-105	Gelatinous Hydroxides Amphoterism			
C-106	The Transition Metals — An Introduction			
C-107	Experiments With Some Typical Transition Metal Ions			
C-108	Some Complex Ions of the Transition Metals			
C-109	Some Applications of Complexing Reactions			
C-110	Some Aspects of Complex Ion Theory			
C-111	A Review of Valence Concepts — Oxidation Number			
C-112	Oxidation Number and the Naming of Compounds			
C-113	An Introduction to Oxidation and Reduction			
C-114	Building an Oxidation Reduction Table			
C-115	A Typical Electric Cell			
C-116	Electric Cell and the Faraday Laws			
C-117	Equivalent Weights of Metals			
C-118	The Lead Storage Battery — The Dry Cell			
C-119	Some Chemical Experiments With a Daniell Cell			
C-120	Oxidation-Reduction Equations			
C-121	The Copper-Silver Ion Reaction — A Quantitative Experiment			
C-122	Electrolysis I			
C-123	Electrolysis II			
C-124	Types of Reactions — A Summary and Review			
C-125	The Halogens			
C-126	Chlorine			
C-127	Fluorine, Bromine and Iodine			
C-128	Halogen Chemistry — A Summary			
C-129	Laboratory Experiments With Halide Ions — Observations and Inferences			
C-130	The Sulfur Family			
C-131	Hydrogen Sulfide — Metal Sulfides			
C-132	Sulfur Oxides — Sulfuric Acid			
C-133	Nitrogen — Ammonia and Nitric Acid			
C-134	Phosphorus and Its Compounds			
C-135	Silicon, Silica, and Silicates			
C-136	Some Applications of Silicate Chemistry			
C-137	Metals and Metallurgy I — Some Native Metals			
C-138	Metals and Metallurgy II — The Moderately Reactive Metals			
C-139	Metals and Metallurgy III — The Very Reactive Metals			
C-140	Iron			

Call No.	Film Title	Producer	No. of Reels	Curr. Division
C-141	Steel — Alloys			
C-142	Iron — Solution Chemistry I			
C-143	Iron — Solution Chemistry II			
C-144	Iron — Corrosion			
C-145	The Packing of Spheres — Simple Solid Structures			
C-146	Measuring the Size of a Molecule — An Experiment			
C-147	Units, Significant Figures — Large and Small Numbers			
C-148	Determining Structures — A Simple Approach			
C-149	Radioactivity and Radiochemistry I			
C-150	Radioactivity and Radiochemistry II			
C-151	The Chemistry of Photography			
C-152	Planning a Career — Courses, College, Chemistry			
C-153	Chemists At Work I			
C-154	Chemists At Work II — Some Special Instruments			
C-155	Colloids			
C-156	Qualitative Analysis I — Introduction, Tests			
C-157	Qualitative Analysis II — Separations			
C-158	Qualitative Analysis III — Lead (I), Silver (I) and Mercury (I) Ions			
C-159	Qualitative Analysis IV — Aluminum (III), Chromium (III) and Iron (III) Ions			
C-160	Summary — What of the Future?			

SCIENCE—General

SG-55	Air Around Us (colour)	E.B.	1½	Int.
SG-134	Air and What It Does (colour)	E.B.	1	Jr.
SG-85	Airplanes: How They Fly (colour)	E.B.	1	Jr. Int.
SG-33	Atmosphere and Its Circulation (b & w)	E.B.	1	Int.
SG-67	Atmospheric Pressure (b & w)	E.B.	1	Int. Sr.
SG-1	Atmosphere, Work of the (b & w)	E.B.	1	Int.
SG-86	Beyond Our Solar System (b & w)	Coronet	1	Jr. Int.
SG-87	Big World, The (colour)	Ed. Hor.	1	Pr.
SG-116	Birth and Death of Mountains (colour)	F.A.C.	1	Int. Sr.
SG-56	Blow, Wind Blow (b & w)	Coronet	1	Int.
SG-117	Building a Jet Plane (colour)	F.A.C.	1	Jr.
SG-118	Caverns and Geysers (colour)	F.A.C.	1	Int. Sr.
SG-57	Clean Waters (colour)	G.E.	2	Int.
SG-48	Clouds Above (b & w)	Bailey	1	Int.
SG-119	Compass, The (b & w)	McG.-H.	1¼	Jr.
SG-34	Day and Night (b & w)	U.W.	1	Int.
SG-120	Earth in Change, The (colour)	E.B.	1½	Jr. Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SG-3	Earth in Motion (b & w)	E.B.	1	Int.
SG-5	Earth, Our (b & w)	E.B.	1	Int.
SG-88	Earth Satellites (colour)	E.B.	1½	Int. Sr.
SG-89	Electricity: How to Make a Circuit (colour)	E.B.	1	Int.
SG-50	Electricity, Making of (b & w)	E.B.	1	Int. Sr.
SG-121	Electro-Magnets (colour)	McG.-H.	1	Pr. Jr.
SG-114	Energetically Yours (colour)	Imp. Oil	2	Int. Sr.
SG-65	Energy from the Sun (b & w)	E.B.	1	Int.
SG-90	Explaining Matter: Atoms and Molecules (colour)	E.B.	1¼	Int. Sr.
SG-91	Explaining Matter: Molecules in Motion (b & w)	E.B.	1	Int.
SG-92	Exploring the Edge of Space (colour)	E.T.S.	1¾	Sr.
SG-72	Exploring the Night Sky (b & w)	E.B.	1	Jr.
SG-58	Face of the Earth (colour)	E.B.	1	Jr.
SG-9	Fire (b & w)	E.B.	1	Int.
SG-122	Fire Science (b & w)	C.W.	1½	Jr. Int.
SG-123	First Men Into Space (colour)	E.B.	1½	Int.
SG-41	Forest Produces, The (colour)	E.B.	1	Int. Sr.
SG-124	Friction and Its Effects (colour)	Coronet	1	Int.
SG-93	Gasoline Age, The (colour)	E.B.	1½	Jr.
SG-11	Geological Work of Ice (colour)	E.B.	1	Int.
SG-94	Great Essential, The (colour)	A.S.N.	1½	Int.
SG-12	Growth of Flowers (colour)	Coronet	1	Int.
SG-80	Growth of Seeds (colour)	E.B.	1¼	Int. Sr.
SG-135	Heat and How We Use It (colour)	E.B.	1	Jr.
SG-66	Heat, Learning About (b & w)	E.B.	1	Int.
SG-60	Helicopter (colour)	E.B.	1	Int.
SG-68	How Many Stars (colour)	M.S.I.	1	Int.
SG-145	How Power Drives Machines (b & w)	Coronet	1	Jr.
SG-95	How We Explore Space (colour)	F.A.S.	1½	Sr.
SG-136	How We Know the Earth's Shape (colour)	F.A.C.	1	Jr.
SG-73	How Weather Helps Us (colour)	Coronet	1	Pr. Jr.
SG-61	How Weather is Forecast (b & w)	Coronet	1	Int.
SG-74	Lands and Waters of Our Earth (colour)	Coronet	1	Jr.
SG-14	Latitude and Longitude (b & w)	Rank	1	Int.
SG-75	Learning About Electric Current (b & w)	E.B.	¾	Int.
SG-96	Learning About Leaves (colour)	E.B.	1	Jr. Int.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SG-125	Learning About Light (b & w)	E.B.	¾	Jr. Int.
SG-126	Learning About Sound (b & w)	E.B.	¾	Jr. Int.
SG-137	Let's Learn to Predict the Weather (colour)	Coronet	1	Jr. Int.
SG-146	Let's Look at Levers (colour)	Journal	1	Jr.
SG-97	Life in a Cubic Foot of Air (b & w)	Coronet	1	Int.
SG-98	Living and Non-Living Things (colour)	Coronet	1	Jr.
SG-62	Look to the Land (colour)	E.B.	2	Int.
SG-99	Mahnomem: Harvest of the North (colour)	F.R.C.	1½	Int.
SG-138	Making Things Move (colour)	E.B.	1	Pr. Jr.
SG-139	Making Work Easier (colour)	E.B.	1	Pr. Jr.
SG-76	Michael Discovers the Magnet (b & w)	E.B.	1	Jr.
SG-35	Mile Beneath the Wheat, A (colour)	Imp. Oil	1½	Int. Sr.
SG-81	Minerals and Rocks (colour)	E.B.	1½	Int. Sr.
SG-100	Moon and How It Affects Us, The (colour)	Coronet	1	Jr.
SG-101	Moving Things on Land (colour)	C.W.	1	Jr. Int.
SG-16	Natural Resources, Conservation of (b & w)	E.B.	1	Int. Sr.
SG-63	Nature's Plan (colour)	E.B.	1½	Int.
SG-147	Ocean Currents (colour)	McG.-H.	1¾	Sr.
SG-102	Oceans of Air (colour)	C.E.F.	1¼	Jr. Int.
SG-77	Ocean Tides (Bay of Fundy) (colour)	E.B.	1½	Int.
SG-103	Osmosis (colour)	E.B.	1¼	Int. Sr.
SG-42	Our Soil Resources (b & w)	E.B.	1	Int. Sr.
SG-69	Our Weather (b & w)	E.B.	1	Int.
SG-127	Our World of Science (b & w)	E.B.	1	Jr. Int.
SG-70	Pipes in the House (b & w)	C.W.	1	Int.
SG-36	Power, How We Get Our (b & w)	McG.-H.	1	Int. Sr.
SG-104	Pure Water (colour)	Can. Oil	2¼	Int. Sr.
SG-20	Rain, What Makes (b & w)	McG.-H.	1	Int.
SG-43	Rape of the Earth (b & w)	Rank	2	Int. Sr.
SG-105	Rockets: How They Work (colour)	E.B.	1½	Int. Sr.
SG-82	Rocks (b & w)	J.H.	1	Jr.
SG-115	Rocks for Beginners (colour)	Bailey	1	Jr.
SG-106	Satellites: Stepping Stones to Space (colour)	F.A.C.	1½	Sr.
SG-64	Scientific Method, The (colour)	E.B.	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SG-140	Shadows on Our Turning Earth (colour)	F.A.C.	1	Pr. Jr.
SG-141	Sound and How It Travels (colour)	E.B.	1	Jr.
SG-142	Space Flight Around the Earth, A (colour)	Churchill	1	Jr.
SG-148	Space Science: The Planets (colour)	Coronet	1½	Sr.
SG-38	Steam Engine: How It Works (b & w)	E.B.	1½	Int. Sr.
SG-128	Story of Magnetism (colour)	Carman	1½	Jr. Int.
SG-51	Sun's Family, The (b & w)	McG.-H.	1	Int.
SG-52	Temperature, Measuring of (b & w)	McG.-H.	1	Int. Sr.
SG-53	Things Expand When Heated (b & w)	McG.-H.	1	Int.
SG-45	This Is the Moon (b & w)	McG.-H.	1	Jr. Int.
SG-47	Thunder and Lightning (b & w)	McG.-H.	1	Int.
SG-108	Treasures of the Earth (colour)	C.W.	1	Int.
SG-83	Trip to the Moon, A (colour)	E.B.	1½	Jr. Int.
SG-54	Understanding Our Earth: Glaciers (b & w)	Coronet	1	Int.
SG-78	Understanding Our Earth: How its Surface Changes (colour)	Coronet	1	Int.
SG-84	Understanding Our Earth: Rocks and Minerals (b & w)	Coronet	1	Int. Sr.
SG-26	Volcanoes in Action (b & w)	E.B.	1	Int.
SG-129	Volume and Its Measurement (colour)	Coronet	1	Int.
SG-27	Water Cycle, The (b & w)	E.B.	1	Int.
SG-30	Water, Ground (b & w)	E.B.	1	Int.
SG-109	Water Works for Us (b & w)	McG.-H.	1	Int.
SG-110	Way Stations in Space (colour)	C.E.F.	1¼	Int.
SG-111	Ways to Find Out (colour)	C.W.	1	Jr.
SG-112	We Use Power (b & w)	C.W.	1	Int.
SG-79	Weather Station, The (b & w)	McG.-H.	1	Jr. Int.
SG-71	What are Machines? (b & w)	Bailey	1	Int.
SG-32	What is Science? (b & w)	Coronet	1	Int.
SG-130	What Is So Important About a Wheel? (colour)	Journal	1	Pr. Jr.
SG-131	What Makes Day and Night? (b & w)	McG.-H.	1	Pr. Jr.
SG-132	Which Way Is North? (colour)	E.B.	1½	Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SG-149	Why Communications Satellites? (colour)	F.A.C.	1¼	Int. Sr.
SG-143	Why Explore Space? (colour)	Churchill	1½	Int.
SG-113	Why Seasons Change (b & w)	E.B.	1	Jr. Int.
SG-144	Wind and What It does (colour)	E.B.	1	Jr. Int.
SG-49	World We Live In, The (b & w)	K. Bldrs.	1	Int.
SG-133	You and Machines (colour)	Carman	1½	Jr. Int.

SCIENCE—Natural

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SN-171	Adaptations of Plants and Animals (colour)	Coronet	1¼	Int. Sr.
SN-156	Amphibians (colour)	Coronet	1	Jr. Int.
SN-144	Animals and Their Foods (colour)	Coronet	1	Jr.
SN-145	Animals and Their Homes (colour)	Coronet	1	Jr.
SN-146	Animals at Work in Nature (colour)	E.B.	1	Jr. Int.
SN-157	Animals, Baby (b & w)	McG.-H.	1	Pr.
SN-185	Animal Friends (colour)	F.A.C.	1	Pr.
SN-172	Animal Homes (b & w)	E.B.	1	Jr.
SN-1	Animal Neighbours, Our (b & w)	Coronet	1	Pr. Jr.
SN-224	Animal Tracks and Signs (colour)	E.B.	1	Pr. Jr.
SN-95	Animals Growing Up (b & w)	E.B.	1	Pr.
SN-56	Animals, How Nature Protects (b & w)	E.B.	1	Jr. Int.
SN-173	Animals in Autumn (colour)	E.B.	1	Jr.
SN-4	Animals in Modern Life (b & w)	E.B.	1	Jr. Int.
SN-133	Animals in Spring (colour)	E.B.	1	Jr. Int.
SN-99	Animals in Winter (b & w)	E.B.	1	Jr.
SN-148	Animals Live in Winter, How (colour)	Coronet	1	Jr.
SN-206	Animals of Pre-Historic America (colour)	McG.-H.	1	Pr. Jr.
SN-106	Animals of the Woods, Common (b & w)	E.B.	1	Pr. Jr.
SN-207	Animals Protect Themselves (colour)	Coronet	1¼	Jr. Int.
SN-208	Animals See in Many Ways (colour)	F.A.C.	1¼	Pr. Jr.
SN-187	Animals Useful to Man (colour)	E.B.	1¼	Int.
SN-147	Animals, Ways They Eat (colour)	E.B.	1	Jr. Int.
SN-149	Animals, Ways They Move (colour)	E.B.	1	Jr. Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SN-158	Ants (b & w)	E.B.	1	Int.
SN-150	Aquarium, Making a Balanced (b & w)	Coronet	1	Jr. Int.
SN-174	Audubon and Birds of America (colour)	Coronet	1½	Jr. Int.
SN-8	Beach and Sea Animals (colour)	E.B.	1	Int.
SN-9	Bear and Its Relatives (b & w)	Coronet	1½	Jr. Int.
SN-125	Beaver Makes a Comeback (colour)	N.F.B.	1½	Int.
SN-175	Behaviour in Animals and Plants (colour)	Coronet	1	Int. Sr.
SN-159	Big Animals of Africa (colour)	E.B.	1	Jr. Int.
SN-209	Big Green Caterpillar, The (colour)	Stanton	1	Pr. Jr.
SN-151	Big Land Animals of North America (colour)	E.B.	1	Jr. Int.
SN-160	Bird Homes (colour)	E.B.	1	Jr. Int.
SN-107	Bird Houses, Building (colour)	I.F.B.	¾	Jr. Int.
SN-100	Birds are Interesting (colour)	E.B.	1	Jr. Int.
SN-210	Birds and Their Characteristics (colour)	Coronet	1	Int.
SN-134	Birds, Five Colourful (colour)	Coronet	1	Jr. Int.
SN-188	Birds: How We Identify Them (colour)	Coronet	1	Jr. Int.
SN-13	Birds in Winter (b & w)	Coronet	1	Jr. Int.
SN-108	Birds in Winter, Attracting (colour)	I.F.B.	¾	Jr. Int.
SN-14	Birds of Prey (b & w)	E.B.	1	Jr. Int.
SN-126	Birds of the Dooryard (colour)	Coronet	1	Pr. Jr.
SN-11	Birds of the Marshes (colour)	Coronet	1	Jr. Int.
SN-12	Birds of the North Woods (b & w)	Skibo	1	Jr. Int.
SN-109	Birds of the Prairie Marshes (colour)	N.F.B.	1	Jr. Int.
SN-110	Birds that Eat Insects (colour)	I.F.B.	¾	Jr. Int.
SN-111	Birds that Eat Seeds (colour)	I.F.B.	¾	Jr. Int.
SN-15	Black Bear Twins (b & w)	E.B.	1	Pr.
SN-152	Blind as a Bat (colour)	M.I.S.	½	Int.
SN-82	Bluebird (colour)	Heid	1	Pr. Jr.
SN-16	Bobolink and Bluejay (colour)	Coronet	1	Jr. Int.
SN-17	Bread (b & w)	E.B.	1	Int.
SN-18	Bruins, Three Little (in the Woods) (b & w)	Castle	1	Int.
SN-176	Bumble Bee, The (colour)	Deusing	1	Jr. Int.
SN-19	Bunny Rabbit (b & w)	E.B.	1	Pr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr Division
SN-20	Butterflies (b & w)	E.B.	1	Jr. Int.
SN-84	Butterfly Botanist (colour)	Coronet	1	Jr. Int.
SN-50	Butterfly, Monarch (colour)	S.M.	1	Jr. Int.
SN-21	Camouflage in Nature by Form and Colour Matching (colour)	Coronet	1	Int.
SN-22	Camouflage in Nature by Pattern Making (colour)	Coronet	1	Int.
SN-161	Chameleon, The (colour)	B.-H.	1	Int.
SN-135	Conservation, Meaning of (colour)	Coronet	1	Jr. Int.
SN-189	Coral Kingdom (colour)	Cwth.	½	Int.
SN-127	Cultivate Your Garden Birds (b & w)	U. Minn.	1	Jr. Int.
SN-23	Dandelion (b & w)	Rank	1	Int.
SN-24	Demons of the Deep (b & w)	Pict.	1	Int.
SN-85	Ducks, Seven Little (b & w)	Bailey	1	Int.
SN-25	Elephants (b & w)	E.B.	1	Pr.
SN-211	Fall Brings Changes (colour)	C.W.	1	Pr. Jr.
SN-177	Farm Babies and Their Mothers (colour)	F.A.C.	1	Pr.
SN-27	Fern, The (b & w)	Rank	2	Sr.
SN-212	Fish and Their Characteristics (colour)	Coronet	1	Int.
SN-153	Fish Out of Water (colour)	M.I.S.	1	Int.
SN-29	Flowers at Work (colour)	E.B.	1	Int.
SN-30	Forest and Conservation (colour)	Coronet	1	Int. Sr.
SN-136	Forest, Life in the (colour)	E.B.	1	Jr. Int.
SN-162	Forest Tent Caterpillar (colour)	N.F.B.	1½	Int.
SN-163	Frogs and Toads (b & w)	McG.-H.	1	Jr.
SN-31	Frog, The (colour)	E.B.	1	Int. Sr.
SN-103	Fur Seal (b & w)	McG.-H.	1	Int.
SN-113	Garden, Foods from Our (colour)	E.B.	1	Jr. Int.
SN-114	Garden, Taking Care of Our (colour)	E.B.	1	Jr. Int.
SN-33	Goats (Billy and Nanny) (b & w)	E.B.	1	Pr.
SN-154	Goldfinch Family (colour)	E.B.	¾	Int.
SN-34	Grasshoppers (b & w)	Ed. Pic.	1	Int. Sr.
SN-137	Grasshopper: A Typical Insect (b & w)	Coronet	½	Int.
SN-35	Gray Squirrel, The (b & w)	E.B.	1	Jr.
SN-39	Honey Bee, The (b & w)	E.B.	1	Int.
SN-40	Housefly (colour)	E.B.	1½	Int.
SN-164	How Animals Help Us (b & w)	McG.-H.	1	Jr.
SN-165	How Insects Help Us (colour)	Coronet	1	Jr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SN-128	How Plants Help Us (colour)	Coronet	1	Int.
SN-213	How Sunshine Helps Us (colour)	Coronet	1	Pr.
SN-166	How Trees Help Us (colour)	Coronet	1	Jr.
SN-228	How We Know About the Ice Age (colour)	F.A.C.	1½	Int.
SN-190	Insect Foods (colour)	P.D.	2	Int.
SN-44	Insect World, Killers of the (b & w)	Picto.	1	Int.
SN-96	Insect Zoo (colour)	E.B.	1	Jr.
SN-115	Insects (colour)	E.B.	1	Int. Sr.
SN-167	Insects are Interesting (colour)	I.F.B.	1	Int.
SN-63	Insects, Pond (b & w)	E.B.	1	Int.
SN-214	Introducing Insects (colour)	N.F.B.	2	Jr. Int.
SN-43	Jamaican Harvest (Bananas) (b & w)	Rank	1	Jr. Int.
SN-129	Kangaroos (b & w)	E.B.	1	Pr.
SN-45	Kittens, Three Little (b & w)	E.B.	1	Pr.
SN-178	Ladybird Story, The (colour)	P.D.	1	Jr. Int.
SN-191	Learning About Bears (colour)	E.B.	1	Pr.
SN-179	Learning About Flowers (colour)	E.B.	1	Jr.
SN-192	Learning About Seeds (colour)	E.B.	1	Jr. Int.
SN-46	Leaves (b & w)	E.B.	1	Pr. Jr.
SN-130	Let's Look at Animals (b & w)	McG.-H.	1	Pr. Jr.
SN-116	Life Along the Waterways (colour)	E.B.	1	Jr. Int.
SN-104	Life on the Western Marshes (colour)	N.F.B.	2	Int. Sr.
SN-117	Lion, Tommy the (b & w)	McG.-H.	1½	Pr.
SN-193	Little Animals (colour)	P.D.	1	Pr.
SN-215	Living Mammals, The (colour)	Deusing	1¾	Int.
SN-118	Mammals are Interesting (colour)	E.B.	1	Jr. Int.
SN-87	Mammals of the Countryside (colour)	Coronet	1	Jr. Int.
SN-88	Mammals of the Rocky Mountains (colour)	Coronet	1	Jr. Int.
SN-119	Marine Life (colour)	E.B.	1	Int. Sr.
SN-229	Marvels of the Hive (colour)	Carey	2	Int.
SN-194	Migration of Birds (Canada Goose) (colour)	E.B.	1	Jr. Int.
SN-49	Milk (b & w)	E.B.	1	Int.
SN-51	Mosquito, Life Cycle of (b & w)	McG.-H.	1	Int.
SN-52	Mosquito, The (b & w)	E.B.	1	Int.
SN-168	Moth, Cecropia (colour)	Deusing	1	Int.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SN-216	Mother Cat and Her Baby Skunks (colour)	E.B.	1	Pr. Jr.
SN-131	Mother Hen's Family (colour)	Coronet	1	Jr.
SN-169	Mother Rabbit's Family (colour)	E.B.	1	Pr.
SN-101	Nature's Engineer (b & w)	W.L.F.	1	Jr. Int.
SN-57	Orange Grower (b & w)	E.B.	1	Int. Sr.
SN-58	Paper (b & w)	E.B.	1	Int.
SN-59	Paper Making (b & w)	Coronet	2	Int.
SN-60	Pets, Care of (b & w)	E.B.	1	Pr. Jr.
SN-195	Pioneer Burro (colour)	P.D.	1½	Jr. Int.
SN-61	Plant Growth (b & w)	E.B.	1	Int.
SN-139	Plant Growth, Wonders of (b & w)	C.W.	1	Jr. Int.
SN-138	Plant, Life of a (colour)	E.B.	1	Int.
SN-180	Plants Make Food (colour)	C.W.	1	Jr. Int.
SN-66	Plants, Roots of (b & w)	E.B.	1	Int. Sr.
SN-62	Plant Traps (colour)	E.B.	1	Int. Sr.
SN-120	Point Pelee — Nature's Sanctuary (colour)	N.F.B.	1	Int.
SN-217	Pond, The (colour)	I.F.B.	1¾	Jr. Int.
SN-140	Red Hen, The (Real Life) (colour)	Barr	1	Pr.
SN-141	Reptiles (colour)	E.B.	1½	Jr. Int.
SN-196	Reptiles and Their Characteristics (colour)	Coronet	1	Int.
SN-105	Roadrunner Battles Rattlesnake (b & w)	Barr	1	Jr.
SN-64	Robin Redbreast (colour)	E.B.	1	Pr. Jr.
SN-102	Seashore Life (colour)	E.B.	1	Int. Sr.
SN-68	Seed Dispersal (colour)	E.B.	1	Int.
SN-170	Seeds Grow into Plants (colour)	Coronet	1	Jr.
SN-72	Shep, The Farm Dog (b & w)	E.B.	1	Pr. Jr.
SN-197	Singing Frogs and Toads (colour)	I.F.D.	1	Int. Sr.
SN-121	Skunk, Adventures of Willie (b & w)	McG.-H.	1	Pr.
SN-225	Snails — Backyard Science (colour)	F.A.C.	1	Pr.
SN-122	Snakes Can Be Interesting (b & w)	McG.-H.	1	Jr.
SN-74	Spiders (colour)	E.B.	1	Int. Sr.
SN-218	Spring Brings Changes (colour)	C.W.	1	Pr. Jr.
SN-123	Spring, Glory of (colour)	Ott	1	Jr. Int.
SN-142	Spring is an Adventure (colour)	Coronet	1	Jr. Int.
SN-230	Story of the Red-Winged Blackbird (colour)	E.B.	1	Jr.
SN-226	Stream, The (colour)	I.F.B.	1½	Int. Sr.
SN-231	Summer Bird Hike (colour)	Carey	1	Jr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SN-198	Sun and How It Affects Us, The (colour)	Coronet	1	Int.
SN-47	Teddy Bears, Live (Koala) (b & w)	E.B.	1	Pr.
SN-92	Timagami Ranger (colour)	Gibson	2	Int.
SN-181	Toads (colour)	P.D.	1	Jr. Int.
SN-97	Trees, Seasonal Changes in (colour)	Coronet	1	Int.
SN-73	Turtle, Snapping (b & w)	E.B.	1	Int.
SN-227	Turtle, The — Care of a Pet (colour)	F.A.C.	1	Pr.
SN-199	Vacant Lot (colour)	I.F.B.	2	Sr.
SN-219	Water and What It Does (colour)	E.B.	1	Int.
SN-220	We Explore the Field and Meadow (colour)	Coronet	1	Pr. Jr.
SN-200	We Explore the Stream (colour)	Coronet	1	Pr. Jr.
SN-221	What Do We See In The Sky (colour)	Coronet	1	Pr.
SN-201	What Plants Need for Growth (colour)	E.B.	1	Jr.
SN-222	What's Alive? (colour)	F.A.C.	1	Pr.
SN-81	Wild Fowl in Slow Motion (b & w)	Sterling	1	Jr. Int.
SN-182	Wild Life in the Rockies (colour)	N.F.B.	1½	Int.
SN-202	Wind at Work, The (colour)	P.D.	1	Jr.
SN-232	Winter Bird Hike (colour)	Carey	1	Jr.
SN-183	Wonders in a Country Stream (colour)	C.W.	1	Jr. Int.
SN-124	Wonders in Your Own Backyard (colour)	C.W.	1	Jr. Int.
SN-203	Wonders of Water (colour)	M.I.S.	1½	Jr.
SN-93	Wood Thrush, The (colour)	Heid.	1	Jr. Int.
SN-223	Woodcock, The (colour)	I.F.B.	½	Pr. Jr.
SN-204	Worms to Wings (colour)	M.I.S.	1½	Jr. Int.
SN-143	Zoo Babies (b & w)	Coronet	1	Pr.
SN-205	Zoo Baby Animals (colour)	E.B.	1	Pr.
SN-184	Zoo Families (colour)	F.A.	1	Pr.
SN-26	Zoo, Feeding Time at the (b & w)	Rank	1	Pr.
SN-94	Zoo, The (colour)	E.B.	1	Pr.
SN-98	Zoo, Washing Time at the (b & w)	Rank	1	Pr.

SCIENCE—Physics

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SP-24	A is for Atom (colour)	Gen. Elec.	2	Int. Sr.
SP-2	Acoustics, Fundamentals of (b & w)	E.B.	1	Int. Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SP-1	Aerodynamics — Problems of Flight (b & w)	U.S.A.	1	Int. Sr.
SP-28	Archimedes' Principle (b & w)	E.B.	1½	Sr.
SP-29	Atom and Biological Science (b & w)	E.B.	1	Sr.
SP-36	Atomic Energy (b & w)	E.B.	1	Int. Sr.
SP-42	Atomic Energy — Inside the Atom (colour)	E.B.	1¼	Int. Sr.
SP-23	Cell, The Primary (b & w)	E.B.	1	Int. Sr.
SP-6	Electric Coils (b & w)	Ed. Pic.	1	Int. Sr.
SP-20	Electrical Circuits, Elements of (b & w)	E.B.	1	Int. Sr.
SP-4	Electricity, Story of (b & w)	K. Bldrs.	1	Int. Sr.
SP-30	Electricity, The Flow of (b & w)	McG.-H.	1	Int.
SP-31	Electricity, What Is (b & w)	E.B.	1½	Sr.
SP-5	Electrodynamics (b & w)	E.B.	1	Int. Sr.
SP-39	Electromagnets: How They Work (b & w)	E.B.	1	Int.
SP-43	Electrons at Work (colour)	E.B.	1¼	Int. Sr.
SP-38	Electrostatics (b & w)	E.B.	1	Int. Sr.
SP-44	Energy and Work (colour)	E.B.	1	Int. Sr.
SP-21	Energy, Nature of (b & w)	Coronet	1	Int. Sr.
SP-40	Engines and How They Work (colour)	Coronet	1	Sr.
SP-45	Evidence For Molecules and Atoms (colour)	E.B.	1½	Int. Sr.
SP-22	Flight, Theory of (b & w)	E.B.	1	Int. Sr.
SP-46	Forces (colour)	E.B.	1¼	Int. Sr.
SP-32	Galileo's Laws (b & w)	E.B.	½	Sr.
SP-34	Gas Laws and Their Application (b & w)	E.B.	1½	Int. Sr.
SP-41	Gravity: How It Affects Us (colour)	E.B.	1½	Jr. Int.
SP-7	Heat: Its Nature and Transfer (b & w)	E.B.	1	Int. Sr.
SP-8	Heat and Pressure (b & w)	Ed. Pic.	1	Int. Sr.
SP-18	Heat, Transfer of (b & w)	McG.-H.	1	Int. Sr.
SP-47	How To Bend Light (colour)	E.B.	1	Int. Sr.
SP-48	How To Measure Time (colour)	E.B.	1	Int. Sr.
SP-49	How To Produce Electric Current With Magnets (colour)	E.B.	1	Int. Sr.
SP-26	Laws of Motion (colour)	E.B.	1¼	Sr.
SP-50	Light and Colour (colour)	E.B.	1¼	Int. Sr.

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SP-10	Light Waves and Their Uses (b & w)	E.B.	1	Int. Sr.
SP-51	Magnetic, Electric and Gravitational Fields (colour)	E.B.	1	Int. Sr.
SP-33	Magnetism (b & w)	E.B.	1½	Sr.
SP-19	Matter and Energy (b & w)	Coronet	1	Int. Sr.
SP-11	Microscope, Story of the (b & w)	K. Bldrs.	1	Int. Sr.
SP-37	Preface to Physics (colour)	E.B.	1¼	Int. Sr.
SP-12	Radio Messages, Receiving (b & w)	E.B.	1	Int. Sr.
SP-13	Radio Messages, Sending (b & w)	E.B.	1	Int. Sr.
SP-14	Series and Parallel Circuits (b & w)	E.B.	1	Int. Sr.
SP-15	Sound Recording and Reproduction (b & w)	E.B.	1	Int. Sr.
SP-16	Sound Waves and Their Sources (b & w)	E.B.	1	Int. Sr.
SP-27	Television: How It Works (b & w)	Coronet	1	Int. Sr.
SP-17	Vacuum Tubes (b & w)	E.B.	1	Int. Sr.
SP-52	Vibrations (colour)	E.B.	1¼	Int. Sr.
SP-53	Waves and Energy (colour)	E.B.	1	Int. Sr.
SP-54	What Is Electric Current (colour)	E.B.	1¼	Int. Sr.
SP-55	What Is Space (colour)	E.B.	1	Int. Sr.
SP-56	What Is Uniform Motion (colour)	E.B.	1¼	Int. Sr.

PHYSICS SERIES

This is an Encyclopaedia Britannica film series with each film being one half hour in length, recommended for use at the Senior grade level.

P-1	Physics, an Exact Science — Lecture (colour)
P-2	Optical Illusions — Lecture (colour)
P-3	Units of Measurements — Lecture
P-4	Measurement of Distances and Angles (laboratory)
P-5	Slide Rule
P-6	Algebra and Powers of Ten
P-7	Trigonometry
P-8	Speed and Velocity — Lecture
P-9	Speed and Velocity (laboratory)
P-10	Accelerated Motion — Lecture (colour)
P-11	Accelerated Motion (laboratory)
P-12	Composition of Velocities — Lecture

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
P-13	Resolution of Velocities — Lecture			
P-14	Falling Bodies — Lecture			
P-15	Falling Bodies (laboratory)			
P-16	Newton's First Law of Motion — Lecture (colour)			
P-17	Projectiles — Lecture (colour)			
P-18	Projectiles (laboratory)			
P-19	Newton's Second Law of Motion — Lecture			
P-20	The Force Equation (laboratory)			
P-21	Newton's Law of Gravitation and Third Law of Motion — Lecture (colour)			
P-22	Balanced and Unbalanced Forces — Lecture			
P-23	Concurrent Forces (laboratory)			
P-24	Resolution of Forces — Lecture			
P-25	Resolution of Forces (laboratory)			
P-26	Rotational Equilibrium — Lecture			
P-27	Parallel Forces (laboratory)			
P-28	Centre of Mass and Centre of Gravity — Lecture (colour)			
P-29	The Simple Crane (laboratory)			
P-30	Equilibrium of Rigid Bodies — Lecture			
P-31	Friction — Lecture			
P-32	Coefficient Friction (laboratory)			
P-33	Streamlining — Lecture			
P-34	Work and Energy — Lecture			
P-35	Centre of Gravity (laboratory)			
P-36	Energy and Power — Lecture			
P-37	Horsepower (laboratory)			
P-38	Conservation of Energy — Lecture			
P-39	Conservation of Momentum — Lecture			
P-40	Energy and Momentum — Lecture			
P-41	Levers — Lecture			
P-42	Levers (laboratory)			
P-43	Anatomical Mechanics — Lecture			
P-44	Machines — Lecture			
P-45	Ballistics (laboratory)			
P-46	Circular Motion — Lecture			
P-47	Centripetal Force (laboratory)			
P-48	Dynamics of Rotation — Lecture			
P-49	Conservation of Angular Momentum — Lecture			
P-50	Moment of Inertia (laboratory)			
P-51	Atomic Theory of Matter — Lecture (colour)			
P-52	Elasticity (Stress, Strain, Young Modulus) — Lecture			
P-53	Hooke's Law (laboratory)			
P-54	Bending, Twisting, and Bouncing — Lecture (colour)			
P-55	Pressure in a Liquid — Lecture			

Call No.	Film Title	Producer	No. of Reels	Curr. Division
P-56	Pressure in Liquids (laboratory)			
P-57	Archimedes' Principle — Lecture			
P-58	Density and Weight Density (laboratory)			
P-59	Surface Tension — Lecture			
P-60	The Atmosphere — Lecture			
P-61	Weighing the Air (laboratory)			
P-62	Fluids in Motion — Lecture			
P-63	Fluid Friction (laboratory)			
P-64	Bernoulli's Principle — Lecture (colour)			
P-65	Vibrations and Waves — Lecture			
P-66	The Pendulum (laboratory)			
P-67	Temperature and Expansion — Lecture			
P-68	Thermal Expansion (laboratory)			
P-69	Heat Capacity and Change of State — Lecture			
P-70	Heat Transfer — Lecture (colour)			
P-71	Specific Heat (laboratory)			
P-72	Radiant Heat — Lecture			
P-73	Latent Heat of Fusion (laboratory)			
P-74	Change of State — Lecture			
P-75	Refrigeration and Geysers — Lecture (colour)			
P-76	Newton's Law of Cooling (laboratory)			
P-77	Heat Energy and Gas Laws — Lecture			
P-78	Mechanical Equivalent of Heat (laboratory)			
P-79	Liquid Air — Lecture (colour)			
P-80	Heat Engines — Lecture			
P-81	Boyle's Law (laboratory)			
P-82	Sound Waves — Lecture			
P-83	Frequency of Tuning Fork (laboratory)			
P-84	Resonance, Beats and Doppler Effect — Lecture			
P-85	Vibrating Strings (laboratory)			
P-86	Vibrating Strings and Air Columns — Lecture (colour)			
P-87	Wind and Percussion Instruments — Lecture			
P-88	Resonating Air Columns (laboratory)			
P-89	Sound Energy and Hearing — Lecture			
P-90	The Science of the Musical Scale — Lecture (colour)			
P-91	Speed of Sound (laboratory)			
P-92	The Quality of Musical Sounds — Lecture			
P-93	The Nature of Light — Lecture (colour)			
P-94	Light Sources and Illumination — Lecture (colour)			
P-95	Photometry (laboratory) (colour)			
P-96	Reflection from Plane Surfaces — Lecture (colour)			
P-97	Reflection from Plane Surfaces (laboratory) (colour)			
P-98	Reflection from Curved Surfaces — Lecture (colour)			
P-99	Refraction of Light — Lecture (colour)			

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
P-100	Index of Refraction (laboratory) (colour)			
P-101	Lenses — Lecture (colour)			
P-102	Study of Lenses (laboratory) (colour)			
P-103	Dispersion — Lecture (colour)			
P-104	Colour — Lecture (colour)			
P-105	Magnifying Power of a Lens (laboratory) (colour)			
P-106	The Eye and Optical Instruments — Lecture (colour)			
P-107	Principles of the Microscope (laboratory) (colour)			
P-108	Diffraction and Interference — Lecture (colour)			
P-109	Polarization of Light — Lecture (colour)			
P-110	Rainbows, Blue Skies and Red Sunsets — Lecture (colour)			
P-111	Electricity at Rest — Lecture			
P-112	Coulomb's Law — Electrostatics — Lecture			
P-113	Electricity in Motion — Lecture (colour)			
P-114	Electromotive Force of a Battery Cell (laboratory)			
P-115	Ohm's Law — Lecture			
P-116	Series Circuits (laboratory) (colour)			
P-117	Parallel Circuits — Lecture			
P-118	The Electric Field and Potential — Lecture			
P-119	Parallel Resistances (laboratory) (colour)			
P-120	Capacitance — Lecture			
P-121	The Potential Divider (laboratory)			
P-122	Magnetism — Lecture			
P-123	Magnetic Fields — Lecture (colour)			
P-124	Wheatstone Bridge (laboratory)			
P-125	Effects of Electric Current — Lecture			
P-126	Electric Equivalent of Heat (laboratory)			
P-127	Electric Motors — Lecture			
P-128	Magnetic Induction — Lecture			
P-129	A Study of Motors (laboratory)			
P-130	Induced Electric Currents — Lecture			
P-131	Coulomb's Law — Magnetism (laboratory)			
P-132	Transformers — Lecture			
P-133	Alternating Current Theory — Lecture			
P-134	Transformers (laboratory)			
P-135	Discovery of the Electron — Lecture			
P-136	Electronic Charge and Mass — Lecture			
P-137	The Elements and Their Isotopes — Lecture			
P-138	Electronic Charge to Mass Ratio (laboratory)			
P-139	Light Sources and Their Spectra — Lecture (colour)			
P-140	Wave Lengths of Spectrum Lines (laboratory)			
P-141	X-rays — Lecture (colour)			
P-142	Radioactivity — Lecture			
P-143	Radioactivity Measurements (laboratory)			

Call No.	Film Title	Producer	No. of Reels	Curr. Division
P-144	Electromagnetic Waves — Lecture			
P-145	Vacuum Tubes — Lecture (colour)			
P-146	Characteristics of Vacuum Tubes (laboratory)			
P-147	Oscillators, Amplifiers, and Radio — Lecture			
P-148	The Photoelectric Effect — Lecture (colour)			
P-149	Electromagnet Waves (laboratory)			
P-150	Radar and TV — Lecture			
P-151	Geiger-Mueller and Scintillation Counters (laboratory)			
P-152	The Bohr Atom — Lecture			
P-153	Electron Shell Structure — Lecture			
P-154	Photon Collisions and Atomic Waves — Lecture			
P-155	Electron Optics — Lecture			
P-156	Nuclear Distintegration — Lecture			
P-157	Cosmic Rays — Lecture			
P-158	Atomic Accelerators — Lecture (colour)			
P-159	Radiation Measurements (laboratory)			
P-160	Transmutation — Lecture (colour)			
P-161	Inside the Nucleus and Fission — Lecture (colour)			
P-162	Nuclear Energy — Lecture (colour)			

SOCIAL STUDIES

AFRICA

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-329	Africa, East (colour)	Hoeffler	2	Int.
SS-198	Africa, South (Riches of the Veldt) (b & w)	U.W.	2	Int. Sr.
SS-584	African Continent: Tropical Region (colour)	Coronet	2	Int.
SS-48	Congo, People of the (b & w)	E.B.	1	Jr. Int.
SS-590	Continent of Africa: Lands Below the Sahara (colour)	E.B.	2	Int.
SS-592	East Africa: Kenya, Tanganyika, Uganda (colour)	E.B.	2	Int. Sr.
SS-593	Egypt: Cradle of Civilization (colour)	E.B.	1	Int. Sr.
SS-550	Life on an Oasis (colour)	Coronet	1	Jr. Int.
SS-551	Life in Ancient Egypt (colour)	C.F.I.	3	Int.
SS-278	Mediterranean Africa (colour)	E.B.	1	Int. Sr.
SS-280	Nile Valley, Life in the (colour)	Coronet	1	Jr. Int.
SS-221	Nomad People, Life of (b & w)	Coronet	1	Pr. Jr.
SS-289	Sahara, Life in the (colour)	E.B.	1½	Jr. Int.
SS-411	Union of South Africa, The (colour)	E.B.	1½	Int. Sr.
SS-636	West Africa: Nigeria (colour)	E.B.	2	Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
ASIA				
SS-302	Arabian Children (colour)	E.B.	1½	Pr.
SS-354	Boy of India (colour)	Coronet	1	Int.
SS-417	Burma, People of the River (colour)	E.B.	1¼	Jr. Int.
SS-37	China, Children of (b & w)	E.B.	1	Pr.
SS-356	China: The Land and the People (colour)	Coronet	1½	Int.
SS-336	India, Farmers of (b & w)	McG.-H.	1½	Int. Sr.
SS-429	India, Introduction to Its History (colour)	E.B.	1½	Int. Sr.
SS-475	India: The Land and the People (colour)	I.F.B.	1	Int.
SS-476	Indonesia: New Nation of Asia (colour)	E.B.	1½	Int.
SS-314	Iran (colour)	E.B.	1½	Int. Sr.
SS-619	Japanese Boy: Story of Taro (colour)	E.B.	1¾	Pr. Jr.
SS-274	Japan, The Land and the People (colour)	Coronet	1	Int. Sr.
SS-275	Java, Tropical Mountain Island (b & w)	U.W.	2	Int. Sr.
SS-177	Malay Peninsula, The (colour)	Coronet	1	Int. Sr.
SS-484	Michio, Schoolboy of Japan (colour)	C.F.D.	1¼	Pr.
SS-340	Middle East, The (colour)	E.B.	1½	Int.
SS-344	Pakistan (b & w)	E.B.	1¼	Int. Sr.
SS-293	Singapore (b & w)	Rank	1	Int. Sr.
SS-574	Thailand, Land of Rice (colour)	E.B.	1¼	Int.
SS-575	Turkey: A Middle East Bridgeland (colour)	U.W.	1½	Int.
SS-508	Turkey: A Strategic Land and Its People (colour)	Coronet	1	Sr.
AUSTRALIA				
SS-251	Australia, Geography of (b & w)	McG.-H.	1	Int. Sr.
SS-504	Australia, This Land (colour)	Aust. F.B.	2	Int. Sr.
SS-488	New Zealand: The Land and the People (colour)	Coronet	1	Jr. Int.
EUROPE				
SS-7	Along the Life Line of the British Empire (b & w)	NuArt	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-388	Boy of the Netherlands (colour)	Coronet	1	Pr.
SS-542	France and Its People (colour)	E.B.	1¼	Int.
SS-171	Greece on Mediterranean Shores (b & w)	U.W.	2	Int. Sr.
SS-332	Greece, People of (colour)	E.B.	1¼	Int.
SS-39	Holland, Children of (b & w)	E.B.	1	Pr.
SS-238	Italian Peninsula, The (b & w)	Coronet	1	Int.
SS-272	Italy: Peninsula of Contrasts (colour)	E.B.	1½	Int.
SS-315	Laplanders (b & w)	E.B.	1	Pr.
SS-477	Life in the Alps (colour)	Coronet	1	Int.
SS-557	Mediterranean World, The (colour)	E.B.	2½	Int.
SS-210	Norway, Children of (b & w)	E.B.	1	Int.
SS-527	Norway, This Is (colour)	Norway	1¾	Int.
SS-628	People of Norway (colour)	Bailey	1½	Pr.Jr.Sr.
SS-497	Rhine: Background of Social Studies (colour)	Coronet	1	Sr.
SS-345	Scandinavian Lands: Norway, Sweden and Denmark (b & w)	Coronet	1	Int.
SS-409	Soviet Union: Land and People (b & w)	Coronet	1¼	Int. Sr.
SS-346	Spain, People of (colour)	E.B.	1¼	Int.
SS-41	Switzerland, Children of (b & w)	E.B.	1	Pr.
SS-609	Switzerland: Life in a Village (colour)	E.B.	1½	Pr.
SS-245	Venice (colour)	E.B.	1	Int. Sr.
SS-348	Western Germany: The Land and the People (colour)	Coronet	1	Int. Sr.

GREAT BRITAIN AND IRELAND

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-208	British Isles (b & w)	E.B.	1	Int. Sr.
SS-616	Eire (colour)	I.E.F.	1	Int.
SS-56	England, Canals of (b & w)	E.B.	1	Int.
SS-162	England, Elizabethan (colour)	Gateway	1	Int.
SS-121	England, This Was (b & w)	Rank	2	Int.
SS-331	England, Traditional (b & w)	F. of N.	1½	Int. Sr.
SS-260	English Children (b & w)	E.B.	1	Pr. Jr.
SS-163	Fishing Grounds of the World (b & w)	Rank	1	Int.
SS-398	Heart Is Highland (colour)	U.K.I.S.	1¼	Int. Sr.
SS-368	Heart of England (colour)	U.K.I.S.	1½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-216	Ireland, A Visit to (colour)	Coronet	1	Jr. Int.
SS-271	Ireland, Northern (b & w)	C.F.I.	1	Int.
SS-237	Irish Children (b & w)	E.B.	1	Jr.
SS-217	Iron and Steel Supply of the World (b & w)	Rank	1	Int. Sr.
SS-79	Mother of Parliaments (b & w)	Crown	1	Int.
SS-286	Queen is Crowned, A (colour)	Rank	5	All
SS-321	Royal New Zealand Journey (colour)	Rank	6	All
SS-196	Royal Wedding (b & w)	U.K.I.S.	1	Jr. Int.
SS-422	Scotland, Children of (colour)	E.B.	1½	Pr. Jr.
SS-112	Scotland, Highlands in (b & w)	Rank	1	Int.
SS-290	Scotland, Royal (colour)	U.K.I.S.	1	Int. Sr.
SS-572	State Opening of Parliament (colour)	U.K.I.S.	2	Int.
SS-410	Trooping the Colour (colour)	U.K.I.S.	1	Int. Sr.

CANADA

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-525	Arctic Outpost (colour)	N.F.B.	2½	Int.
SS-253	Beaver, Age of (b & w)	N.F.B.	1¼	Int. Sr.
SS-26	Canada, Industrial Provinces of (b & w)	E.B.	1	Pr. Jr.
SS-304	Canada, Physical Regions of (b & w)	N.F.B.	1½	Int. Sr.
SS-305	Canada's Pathway to Plenty (colour)	Vega	1¼	Int. Sr.
SS-450	Canada's Royal Canadian Mounted Police (colour)	E.B.	1½	Jr. Int.
SS-256	Canadian Heritage (colour)	C.N.R.	3	Jr. Int.
SS-587	Cattle Ranch (colour)	N.F.B.	2	Jr. Int.
SS-537	City of Gold (b & w)	N.F.B.	2	Jr. Int.
SS-538	Climates of North America (colour)	N.F.B.	2	Int.
SS-591	Decision to Drill (colour)	Imp. Oil	3	Int. Sr.
SS-459	Down North (colour)	N.F.B.	3	Int. Sr.
SS-38	Eskimo Children (b & w)	E.B.	1	Pr.
SS-58	Eskimo Summer (colour)	N.F.B.	2	Int.
SS-541	Face of the High Arctic (colour)	N.F.B.	1½	Int. Sr.
SS-364	Family Tree (colour)	N.F.B.	1	Int.
SS-544	Georges P. Vanier (b & w)	N.F.B.	3	Int. Sr.
SS-474	High Arctic, Life on the Land (colour)	N.F.B.	2	Int. Sr.
SS-599	History of the Canadian Flag and Coats of Arms (colour)	Pioneer	1	Gen'r'l

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-370	Indians of the Plains: Life in the Past (colour)	Academy	1	Pr. Jr.
SS-524	Industrial Canada (b & w)	N.F.B.	1½	Int.
SS-337	Iron from the North (b & w)	N.F.B.	2	Int.
SS-432	Money Minters (colour)	Crawley	1	Int.
SS-341	Musical Ride (R.C.M.P.) (colour)	N.F.B.	2	Gen.
SS-377	No Longer Vanishing (colour)	N.F.B.	3	Int. Sr.
SS-602	Origins of Weather (colour)	N.F.B.	1½	Int.
SS-627	Ottawa, Canada's Capital (colour)	N.F.B.	1¼	Jr. Int.
SS-561	People of the Rock (colour)	N.F.B.	1¼	Int.
SS-98	Portage (colour)	Crawley	2	Jr. Int.
SS-493	Portrait of Canada (colour)	N.F.B.	1	Sr.
SS-435	Precambrian Shield, The (b & w)	N.F.B.	3	Int.
SS-603	Queen Opens Parliament (colour)	N.F.B.	1	Jr. Int. Sr.
SS-383	Road of Iron (b & w)	N.F.B.	3	Int.
SS-568	Roughnecks (Oil Drillers) (b & w)	N.F.B.	2	Int.
SS-292	Settler, The (b & w)	N.F.B.	2	Int.
SS-436	The Sceptre and the Mace (b & w)	N.F.B.	3	Jr. Int. Sr.
SS-634	Trans-Canada Journey (colour)	N.F.B.	2	Gen.
SS-507	Treasures of the Forest (b & w)	N.F.B.	2	Int.
SS-300	Winter in Canada (b & w)	N.F.B.	2	Int.

WESTERN PROVINCES

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-152	Arctic Borderlands in Winter (colour)	Coronet	1	Int.
SS-28	Canada, Pacific (b & w)	E.B.	1	Int.
SS-615	Columbia River, The (colour)	N.F.B.	1	Int.
SS-466	Fraser's River (colour)	N.F.B.	1½	Int.
SS-396	Great Plains (colour)	N.F.B.	2	Jr. Int.
SS-267	Herring Hunt (b & w)	N.F.B.	1	Int.
SS-180	Meat on the Move (colour)	Can. Pack.	3	Int. Sr.
SS-485	Most Lovely Country (B.C.) (colour)	Imp. Oil	3	Int.
SS-317	Mountains of the West (b & w)	N.F.B.	2	Int.
SS-495	Railroaders (b & w)	N.F.B.	2	Int.
SS-566	Rocky Mountains: A Geographical Region (colour)	Coronet	1	Int.
SS-197	Skeena, Peoples of the (colour)	N.F.B.	2	Int.
SS-571	Stampede Stopover (colour)	Imp. Oil	2	Int.
SS-513	Wheat Country (b & w)	N.F.B.	2	Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
ONTARIO				
SS-530	Abitibi (colour)	Abitibi	3	Int. Sr.
SS-6	Algonquin Waters (b & w)	N.F.B.	1	Int
SS-442	Battle of Stoney Creek (colour)	Pioneer	1	Int.
SS-451	Century of Harvest (colour)	Meyer	1½	Int.
SS-209	Champlains of Today (colour)	Gibson	3	Int.
SS-211	Erie's Shore (colour)	Gibson	2	Int.
SS-166	Friendly Invaders (colour)	Gibson	2	Int.
SS-61	Fur Country (colour)	N.F.B.	2	Jr. Int.
SS-64	Great Lakes (colour)	N.F.B.	2	Int.
SS-428	Great Lakes: How They Were Formed (colour)	E.B.	1	Int.
SS-614	Hamilton, The Ambitious City (colour)	Pioneer	¾	Int.
SS-235	Highland Legend (colour)	Gibson	2	Int. Sr.
SS-213	Historic Highway (Upper Canada) (colour)	N.F.B.	2½	Int.
SS-582	History of Mail Delivery in Upper Canada (colour)	Pioneer	1	Jr. Int.
SS-218	Land of Blue Water (colour)	N.F.B.	2	Int.
SS-480	Location Niagara (colour)	Lococo	2	Jr. Int.
SS-240	Longhouse People (colour)	N.F.B.	2	Int. Sr.
SS-178	Manitoulin Holiday (colour)	Gibson	1	Int.
SS-183	Niagara, Land of (colour)	Gibson	2	Int.
SS-186	Northern Autumn (colour)	Gibson	2	Int.
SS-563	Pioneer Village (colour)	Metro. Con.	3	Int. Sr.
SS-629	Queen City, Toronto (colour)	Pioneer	1	Int.
SS-500	St. Lawrence Seaway (colour)	N.F.B.	2	Int.
SS-580	Village in the Dust (colour)	Imp. Oil	2	Int. Sr.
QUEBEC				
SS-230	Canada, French (1534–1848) (b & w)	N.F.B.	2	Int.
SS-424	Colonial Family of New France (colour)	Coronet	1¼	Jr. Int.
SS-35	French-Canadian Children (b & w)	E.B.	1	Jr. Int.
SS-212	Historic Highway (Lower Canada) (colour)	N.F.B.	1½	Int.
SS-175	Indian Canoemen (colour)	N.F.B.	1	Jr. Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division

ATLANTIC PROVINCES

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-441	Atlantic Region, The (b & w)	N.F.B.	2	Int.
SS-418	Canada, Atlantic Provinces (colour)	E.B.	2	Int.
SS-465	Fishermen (b & w)	N.F.B.	2	Int.
SS-397	Harvest in the Valley (Potatoes) (colour)	N.F.B.	1¼	Int.
SS-483	Maritimes: Transitions and Traditions (b & w)	N.F.B.	2½	Int.
SS-559	My Island Home (colour)	N.F.B.	1½	Int. Sr.
SS-342	Newfoundland, High Tide in (colour)	N.F.B.	2	Int.
SS-181	Newfoundland, Sentinel of the Atlantic (colour)	N.F.B.	2	Int.
SS-626	Nova Scotia Saga (colour)	N.S. Govt.	1½	Int.
SS-322	Saint John Valley (b & w)	N.F.B.	1½	Int.
SS-573	Stowaway, The (colour)	N.F.B.	1½	Int.

UNITED STATES AND POSSESSIONS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-526	Alaska: 49th State (colour)	E.B.	1¾	Int.
SS-387	America's Inland Waterways (b & w)	Coronet	1¼	Int.
SS-353	Bill of Rights (colour)	E.B.	2	Int. Sr.
SS-588	Children of the Colonial Frontier (colour)	McG.-H.	2	Jr. Int.
SS-36	Colonial Children (b & w)	E.B.	1	Jr. Int.
SS-359	Colonial Life in the Middle Colonies (b & w)	Coronet	1	Int. Sr.
SS-360	Colonial Life in the South (colour)	Coronet	1¼	Int. Sr.
SS-362	Constitution of the U.S. (colour)	E.B.	2	Int. Sr.
SS-363	Declaration of Independence (colour)	E.B.	2	Int. Sr.
SS-262	Far Western States (b & w)	E.B.	1	Int.
SS-543	Frontier Boy of the Early Midwest (colour)	E.B.	1½	Jr. Int.
SS-366	Geography of North Central States (b & w)	Coronet	1¼	Int. Sr.
SS-469	Geography of U.S.: An Introduction (colour)	Coronet	1¼	Int.
SS-333	Hawaii: U.S.A. (b & w)	Bailey	2	Int.
SS-400	Indian Family of Long Ago (colour)	E.B.	1½	Jr. Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-402	Inventions in America's Growth: (1750–1850) (colour)	Coronet	1	Jr. Int.
SS-403	Inventions in America's Growth: (1850–1910) (colour)	Coronet	1	Jr. Int.
SS-431	Jamestown Colony (colour)	Coronet	2	Int.
SS-279	Middle States (b & w)	E.B.	1	Int.
SS-558	Mississippi River, The (colour)	Coronet	1¼	Int.
SS-40	Navajo Children (b & w)	E.B.	1	Pr.
SS-81	Navajo Indians (b & w)	E.B.	1	Jr.
SS-83	New England, Early Settlers of (b & w)	E.B.	1	Int.
SS-86	Northeastern States (colour)	E.B.	1	Int.
SS-281	Northwestern States (colour)	E.B.	1	Int.
SS-491	Philippines (colour)	U.W.	1½	Int.
SS-94	Pioneers of the Plains (b & w)	E.B.	1	Int.
SS-378	Plantation System in Southern Life (b & w)	Coronet	1	Int. Sr.
SS-564	Plymouth Colony, The First Year (colour)	Coronet	1½	Int.
SS-492	Pony Express in America's Growth, The (colour)	Coronet	1	Int.
SS-379	Puritan Family of Early New England (b & w)	Coronet	1	Int.
SS-295	Southeastern States (colour)	E.B.	1	Int.
SS-296	Southwestern States (colour)	E.B.	1	Int.
SS-438	Tom Savage (colour)	E.B.	2	Int.
SS-523	United States Expansion: Settling the West (colour)	Coronet	1¼	Int.
SS-637	Westward Movement, Part I (Settlers of the Old Northwest Territory) (colour)	E.B.	1½	Int.
SS-638	Westward Movement, Part III (Settling of the Great Plains) (colour)	E.B.	1½	Int.

MEXICO

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-172	Hacienda: Life in Old Mexico (colour)	Hwd.	1	Jr.
SS-156	Mexican Children (b & w)	E.B.	1	Jr.
SS-78	Mexico: Land and People (colour)	E.B.	2	Jr. Int.
SS-570	Spain in the New World (colour)	E.B.	1½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SOUTH AND CENTRAL AMERICA				
SS-386	Amazon, People and Resources of Northern Brazil (colour)	E.B.	2	Int. Sr.
SS-8	America, Central (Caribbean Region) (b & w)	E.B.	1	Int.
SS-10	Andes, The — Chile Barrier (colour)	Hwd.	1	Int.
SS-12	Argentina: People of the Pampa (colour)	E.B.	1½	Int.
SS-23	Brazil (b & w)	E.B.	1½	Int.
SS-534	Brazil, Geography of South America (colour)	Coronet	1½	Int. Sr.
SS-355	British Guiana (colour)	U.K.I.S.	2	Int. Sr.
SS-536	Chile (colour)	McG.-H.	1½	Jr. Int.
SS-47	Colombia and Venezuela (b & w)	E.B.	1	Int.
SS-539	Countries of the Andes (colour)	Coronet	1	Jr. Int.
SS-468	Geography of South America: Five Northern Countries (colour)	Coronet	1	Int.
SS-545	Guatemala (colour)	E.B.	1½	Int.
SS-548	Incas, The (colour)	Coronet	1	Int.
SS-552	Life In Grasslands: Argentine Pampas (colour)	Coronet	1	Int.
SS-553	Life in the High Andes (colour)	Coronet	1	Jr. Int.
SS-191	Pampas, Horsemen of the (b & w)	U.S.	2	Int.
SS-434	Panama Canal, The (colour)	Coronet	1	Int. Sr.
SS-192	Panama, Crossroads of the Western World (colour)	Coronet	1	Int.
SS-562	Peru (colour)	McG.-H.	2	Jr. Int.
SS-490	Peru: People of the Andes (colour)	E.B.	1½	Int.
SS-607	South America (colour)	McG.-H.	2	Jr. Int.
SS-569	South America: Geography of the Continent (colour)	Coronet	2	Int.
WEST INDIES				
SS-139	West Indies (b & w)	E.B.	1	Int.
CLOTHING				
SS-357	Clothes We Wear (b & w)	C.W.	1	Jr. Int.
SS-43	Clothing (b & w)	E.B.	1	Int.
SS-50	Cotton (b & w)	E.B.	1	Int.
SS-114	Shoes, Making of (b & w)	E.B.	1	Int.
SS-147	Wool (b & w)	E.B.	1	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
COMMUNITY SERVICES				
SS-443	Behind the Scenes at the Supermarket (colour)	F.A.C.	1	Pr.
SS-456	Community Keeps House, A (colour)	F.A.C.	1	Pr.
SS-161	Doctor, The (b & w)	E.B.	1	Pr. Jr.
SS-617	Everyone Helps in a Community (colour)	Churchill	1¼	Pr. Jr.
SS-464	Fathers Go Away to Work (colour)	P.D.	1	Pr.
SS-59	Fireman, The (b & w)	E.B.	1	Pr. Jr.
SS-473	Helpers in Our Community (colour)	Coronet	1	Pr.
SS-369	Helpers Who Come to Our House (colour)	Coronet	1	Pr.
SS-620	Jet Pilot (colour)	N.F.B.	1½	Jr. Int.
SS-96	Policeman, The (b & w)	E.B.	1	Pr. Jr.
SS-385	What Our Town Does for Us (colour)	Coronet	1	Jr.
SS-581	Wires to Our House (colour)	I.F.B.	1½	Jr.
FOOD				
SS-160	Coffee, A Story of (b & w)	Pan. Am.	1	Int.
SS-52	Dwellers in Cold Countries (b & w)	Ed. Pic.	1	Jr. Int.
SS-60	Food Store, The (colour)	E.B.	1¼	Pr. Int.
SS-597	Foods From Grain (colour)	Coronet	1	Pr. Jr.
SS-63	Grapefruit (b & w)	Rank	1	Int.
SS-472	Green Gold (Bananas) (colour)	I.F.B.	1	Int.
SS-404	Life in Cold Lands (Eskimo Village) (b & w)	Coronet	1	Jr. Int.
SS-498	Rice in To-day's World (colour)	Coronet	1	Int.
SS-608	Story of Meat in Canada (colour)	Can. Pack.	2¼	Int.
SS-610	This is Coffee (colour)	Singleton	2	Int.
SS-141	Wheat Farmer, The (b & w)	E.B.	1½	Int.
SS-413	Where Does Our Food Come From (colour)	Coronet	1	Pr. Jr.
SS-514	Where Does Our Meat Come From (colour)	Coronet	1	Pr. Jr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
HISTORY				
SS-248	Abraham Lincoln (b & w)	E.B.	2	Int. Sr.
SS-583	Acropolis (colour)	I.F.B.	1	Sr.
SS-350	Age of Discovery: English, French and Dutch Exploration (colour)	Coronet	1	Jr. Int.
SS-249	American Revolution (colour)	E.B.	1½	Int. Sr.
SS-250	Ancient Egypt (colour)	Coronet	1	Int. Sr.
SS-351	Ancient Greece (colour)	Coronet	1	Sr.
SS-440	Ancient Orient (colour)	Coronet	1¼	Int. Sr.
SS-9	Ancient World Inheritance (b & w)	Coronet	1	Int. Sr.
SS-532	Baldwin, R. — Matter of Principle (b & w)	N.F.B.	2½	Int.
SS-533	Bolivar: South American Liberator (colour)	Coronet	1	Int. Sr.
SS-416	British Monarchy, The (b & w)	Rank	2	Int. Sr.
SS-447	Boy of Renaissance Italy (colour)	Coronet	1¼	Int.
SS-449	Byzantine Empire (colour)	Coronet	1¼	Sr.
SS-639	Canada Between Two World Wars (b & w)	N.F.B.	2	Int.
SS-585	Canada in World War I (b & w)	N.F.B.	2	Int. Sr.
SS-330	Captain John Smith (b & w)	E.B.	2	Jr. Int.
SS-586	Cartier, George (b & w)	N.F.B.	3	Int. Sr.
SS-158	Christopher Columbus (b & w)	E.B.	2	Jr. Int.
SS-589	City, The (colour)	E.B.	1	Jr. Int.
SS-306	Civil War, The (colour)	E.B.	2	Int.
SS-358	Colonial Expansion of European Nations (colour)	Coronet	1½	Int. Sr.
SS-453	Colonial Shipbuilding and Sea Trade (colour)	Coronet	1	Sr.
SS-307	Commonwealth of Nations (b & w)	U.K.I.S.	2½	Int.
SS-232	David Livingstone (b & w)	Rank	2	Jr. Int.
SS-457	Decline of the Roman Empire (colour)	Coronet	1½	Int. Sr.
SS-458	Dinosaur Age, The (colour)	C.F.A.	1¼	Int. Sr.
SS-393	Eighteenth Century England (colour)	Coronet	1	Int. Sr.
SS-594	England, Industrial Empire (colour)	U.W.	2	Int. Sr.
SS-595	England of Elizabeth (colour)	I.F.B.	2½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-540	English and Dutch Colonization in the New World (colour)	Coronet	1	Int. Sr.
SS-425	English Criminal Justice (b & w)	Rank	1½	Int.
SS-460	English History: Absolutism and Civil War (colour)	Coronet	1	Int. Sr.
SS-309	English History: Earliest Times to 1066 (b & w)	Coronet	1	Int.
SS-310	English History: Norman Conquest to the 15th Century (b & w)	Coronet	1	Int.
SS-461	English History: 19th Century Reforms (b & w)	Coronet	1¼	Int. Sr.
SS-426	English History: Restoration and Glorious Revolution (colour)	Coronet	1	Int.
SS-311	English History: Tudor Period (b & w)	Coronet	1	Int.
SS-233	English Influences in the United States (b & w)	Coronet	1	Int. Sr.
SS-462	Explorations of Prince Henry, The (b & w)	McG.-H.	1¼	Jr.
SS-596	France in the New World (colour)	E.B.	1½	Jr. Int.
SS-467	French and Indian War (colour)	Coronet	1	Int.
SS-264	French Influences in North America (colour)	Coronet	1	Int. Sr.
SS-394	French Revolution, The (colour)	Coronet	1½	Int. Sr.
SS-395	Food and People (b & w)	E.B.	2¼	Int. Sr.
SS-598	Galt, Alexander (b & w)	N.F.B.	3	Int. Sr.
SS-470	Germany: Feudal States to Unification (colour)	Coronet	1¼	Sr.
SS-170	Good Samaritan, The (b & w)	Rank	1	Pr. Jr.
SS-268	High Wall, The (b & w)	McG.-H.	3	Sr.
SS-313	History, Beginning of (b & w)	U.K.I.S.	6	Int.
SS-334	History in Your Community (b & w)	Coronet	1¼	Int.
SS-618	Holy Land (colour)	I.F.B.	1¾	Pr. Int.
SS-335	Holy Land, The (b & w)	Coronet	1	Int.
SS-546	Holy Roman Empire (colour)	Coronet	1¼	Int. Sr.
SS-173	Houses in History (b & w)	S.L.U.	2	Int.
SS-547	Howe, J. — Tribune of Nova Scotia (b & w)	N.F.B.	2½	Int.
SS-399	India's History: British Colony to Independence (b & w)	Coronet	1	Int. Sr.
SS-430	Indian Ocean (colour)	Rank	1½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-215	Industrial Revolution (b & w)	E.B.	1	Int. Sr.
SS-236	Industrial Revolution, Meaning of the (b & w)	Coronet	1	Int. Sr.
SS-239	Jerusalem, Holy City (colour)	E.B.	1	Int. Sr.
SS-621	Joseph Brant and the Six Nation Indians (colour)	Pioneer	¾	Jr. Int.
SS-622	Julius Caesar: Rise of the Roman Empire (colour)	E.B.	1½	Int. Sr.
SS-600	Lafontaine, Louis — Hippolyte (b & w)	N.F.B.	3	Int. Sr.
SS-478	Life in Ancient Greece: Home and Education (colour)	Coronet	1	Int. Sr.
SS-479	Life in Ancient Greece: Role of the Citizen (colour)	Coronet	1	Int. Sr.
SS-623	Life in Ancient Rome (colour)	E.B.	1¼	Int.
SS-554	Lord Elgin — Voice of the People (b & w)	N.F.B.	2½	Int.
SS-555	Lord Durham (b & w)	N.F.B.	2½	Int.
SS-405	Louisiana Purchase (colour)	Coronet	1½	Int. Sr.
SS-601	MacDonald, John A. (b & w)	N.F.B.	3	Int. Sr.
SS-556	W. L. Mackenzie — Friend to His Country (b & w)	N.F.B.	2½	Int.
SS-481	Magna Carta — Part I (colour)	E.B.	1½	Int. Sr.
SS-482	Magna Carta — Part II (colour)	E.B.	1½	Int. Sr.
SS-338	Mahatma Gandhi (b & w)	E.B.	2	Int. Sr.
SS-339	Marco Polo (b & w)	E.B.	2	Int. Sr.
SS-219	Mediaeval Castles (b & w)	U.W.	1½	Int.
SS-372	Mediaeval Crusade (colour)	E.B.	2½	Int. Sr.
SS-220	Mediaeval England (b & w)	U.K.I.S.	1	Int.
SS-373	Mediaeval Guilds (colour)	E.B.	2	Int. Sr.
SS-374	Mediaeval Knight (colour)	E.B.	2	Int. Sr.
SS-375	Mediaeval Manor (colour)	E.B.	2	Int. Sr.
SS-76	Mediaeval Monastery (b & w)	U.W.	1	Int.
SS-136	Mediaeval Village (b & w)	U.W.	2	Int.
SS-316	Mesopotamia, Ancient (colour)	Coronet	1	Sr.
SS-376	Middle East: Crossroads of Three Continents (colour)	Coronet	1¼	Int. Sr.
SS-433	Napoleonic Era, The (colour)	Coronet	1¼	Int. Sr.
SS-282	Our Inheritance from Historic Greece (colour)	Coronet	1	Int. Sr.
SS-283	Our Inheritance from the Past (colour)	Coronet	1	Int. Sr.
SS-190	Pacific Ocean (colour)	Rank	2	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-560	Papineau — The Demi-God (b & w)	N.F.B.	2½	Int.
SS-406	Pilgrims, The (b & w)	E.B.	2	Int. Sr.
SS-284	Pompeii and Vesuvius (colour)	E.B.	1	Int. Sr.
SS-318	Prehistoric Man, The Story of (b & w)	Coronet	1	Int. Sr.
SS-565	Prehistoric Man in Northern Europe (b & w)	E.B.	1¼	Sr.
SS-604	Quest for Freedom (colour)	C.W.	1½	Int. Sr.
SS-381	Reformation, The (colour)	Coronet	1¼	Int. Sr.
SS-243	Renaissance, The (colour)	Coronet	1	Sr.
SS-407	Renaissance, The (colour)	E.B.	2¼	Sr.
SS-605	Rise of Nationalism in Southeast Asia (b & w)	McG.-H.	1½	Sr.
SS-382	Rise of the Nations in Europe (colour)	Coronet	1½	Int. Sr.
SS-499	Rise of the Roman Empire (colour)	Coronet	1¼	Int. Sr.
SS-319	Road to Canterbury (colour)	U.K.I.S.	2½	Int. Sr.
SS-224	Roman Episode, A (b & w)	Gateway	1	Int.
SS-287	Roman Wall, The (b & w)	Gateway	2	Int. Sr.
SS-630	Roman World (colour)	I.F.B.	2	Sr.
SS-225	Rome, Ancient (colour)	Coronet	1	Int. Sr.
SS-244	Rome, City Eternal (colour)	E.B.	1	Int. Sr.
SS-567	Room of Destiny (b & w)	N.F.B.	1½	Int.
SS-408	Sir Francis Drake: Rise of English Sea Power (b & w)	E.B.	3	Jr. Int.
SS-325	Spanish Conquest of the New World (b & w)	Coronet	1	Int.
SS-437	Steam Age (colour)	E.B.	1½	Int. Sr.
SS-347	Stonehenge (b & w)	Gateway	1½	Int. Sr.
SS-502	Talbot Settlement (colour)	Pioneer	1½	Int.
SS-611	Tupper, Charles (b & w)	N.F.B.	1½	Int. Sr.
SS-129	Two Thousand Years Ago — The Day's Work (b & w)	Rank	2	Int. Sr.
SS-130	Two Thousand Years Ago — The Home (b & w)	Rank	2	Int. Sr.
SS-131	Two Thousand Years Ago — The School (b & w)	Rank	2	Int. Sr.
SS-132	Two Thousand Years Ago — The Synagogue (b & w)	Rank	2	Int. Sr.
SS-133	Two Thousand Years Ago — The Travellers (b & w)	Rank	2	Int. Sr.
SS-635	Unification of Italy (colour)	Coronet	1¼	Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-576	United Empire Loyalists (colour)	Pioneer	1½	Int.
SS-577	United Nations: The Charter (b & w)	N.F.B.	1½	Int. Sr.
SS-578	United Nations: General Assembly (b & w)	N.F.B.	1½	Int. Sr.
SS-579	United Nations: Trusteeship Council and System (b & w)	N.F.B.	1½	Int. Sr.
SS-227	Unquiet Land (b & w)	Rank	3	Int. Sr.
SS-509	Vikings and Their Explorations (colour)	Coronet	1	Jr.
SS-528	War of 1812–14 (colour)	Pioneer	1½	Int.
SS-511	Westward Growth of Our Nation (colour)	Coronet	1	Int.
SS-515	William Penn and the Quakers (colour)	Coronet	1	Int.
SS-203	Winston Churchill (b & w)	Rank	1	Int.
SS-439	Wolfe and Montcalm (b & w)	N.F.B.	3	Int. Sr.
SS-516	Woodland Indians of Early America (colour)	Coronet	1	Pr. Jr.
SS-349	Workshop for Peace (U.N.) (b&w)	N.F.B.	3	Sr.

INDUSTRY

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-176	Bricks for Houses, Making (b & w)	E.B.	1	Jr. Int.
SS-392	Cheese and Cheese Making (colour)	Kruse	1	Int.
SS-45	Coal, The Story of (b & w)	K. Bldrs.	1	Int.
SS-471	Gold and Gold Mining (b & w)	Bailey	1¼	Int.
SS-632	Great Tomato Harvest, The (colour)	Heinz	2	Int.
SS-518	Harvest of Energy (colour)	Meridian	1¾	Jr. Int.
SS-371	Lobsters are a Community Affair (b & w)	N.F.B.	2	Int.
SS-128	Lumbering, Tropical (b & w)	Rank	1	Int.
SS-529	Magic Mineral (Asbestos) (b & w)	N.F.B.	1½	Int.
SS-624	Making Butter in Olden Times (colour)	Pioneer	¾	Pr.
SS-487	Natural Gas Goes East (colour)	T.C.P.	3	Int.
SS-323	Salt from the Earth (b & w)	N.F.B.	1	Int.
SS-113	Shell Fishing (b & w)	E.B.	1	Int.
SS-115	Sponges (b & w)	Rank	1	Int.
SS-326	Sugar, Story of (b & w)	E.B.	1	Int.
SS-522	Tea (colour)	Salada	1½	Int.
SS-200	Tea from Nyasaland (b & w)	Crown	1	Int.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-201	Tobacco Supply of the World (b & w)	G.B.	1	Int.
SS-328	Underground East (colour)	Imp. Oil	2	Int. Sr.
SS-512	Whales and Whalermen (colour)	Rank	2	Int.

MAP READING

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-303	By Map and Compass (colour)	Sylva	2½	Int.
SS-423	Climate and the World We Live In (colour)	Coronet	1¼	Int. Sr.
SS-365	Geography in Your Community (colour)	Coronet	1	Jr. Int.
SS-169	Global Concepts in Maps (colour)	Coronet	1	Int.
SS-277	Maps and Their Meaning (colour)	Academy	1¼	Int.
SS-179	Maps Are Fun (colour)	Coronet	1	Jr.
SS-625	Maps for a Changing World (b & w)	E.B.	1	Int. Sr.
SS-380	Reading Maps (colour)	E.B.	1	Jr. Int.
SS-140	What Is a Map (b & w)	McG.-H.	1	Int. Sr.

SHELTER

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-384	Shelter (b & w)	E.B.	1	Jr.
SS-612	World Full of Homes, A (colour)	McG.-H.	1	Pr.

TRANSPORTATION AND COMMUNICATION

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-229	Adventure in Telezonia (colour)	B.T.	2	Jr.
SS-1	Aeroplane Trip, An (b & w)	E.B.	1	Jr.
SS-151	Airport, The (b & w)	E.B.	1	Jr.
SS-531	Airport in the Jet Age (colour)	C.W.	1	Jr.
SS-352	Big Highway, The (b & w)	Coronet	1	Jr.
SS-22	Boats (b & w)	E.B.	1	Jr.
SS-25	Bus Driver (b & w)	E.B.	1	Pr. Jr.
SS-448	Busy Harbour, The (colour)	Coronet	1	Pr. Jr.
SS-361	Communication, Development of (b & w)	E.B.	1	Jr.
SS-454	Communication: Story of Its Development (colour)	Coronet	1	Jr. Int.
SS-455	Communication: In the Modern World (colour)	Coronet	1	Jr. Int.
SS-164	Freighter in Port (b & w)	Academy	2	Jr.
SS-165	Freighter at Sea (b & w)	Academy	2	Jr.
SS-285	Printing Through the Ages (b & w)	E.B.	2	Int. Sr.
SS-606	Seaport (colour)	E.B.	1½	Pr. Jr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-633	Story of the Letter Post (colour)	E.F.D.	1½	Pr. Jr.
SS-124	Train, The Freight (b & w)	Barr	1	Jr.
SS-125	Train, The Passenger (b & w)	E.B.	1	Jr.
SS-126	Transportation, Development of (b & w)	E.B.	1	Jr.
SS-246	Writing, History of (b & w)	E.B.	2½	Int. Sr.

SOCIAL STUDIES: PRIMARY

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-613	Airport Helpers (colour)	Sask. Govt.	1	Pr. Jr.
SS-153	Autumn on the Farm (colour)	E.B.	1	Jr.
SS-391	Carnival Comes to Town (colour)	Coronet	1	Pr.
SS-159	Circus Animals (colour)	Academy	1	Pr.
SS-535	Children in Autumn (colour)	E.B.	1	Pr.
SS-419	Children in Spring (colour)	E.B.	1	Pr. Jr.
SS-420	Children in Summer (colour)	E.B.	1	Pr. Jr.
SS-421	Children in Winter (colour)	E.B.	1	Pr. Jr.
SS-257	Community, Our (b & w)	E.B.	1	Pr. Jr.
SS-263	Farmyard Babies (b & w)	Coronet	1	Pr.
SS-265	Golden Rule, The (b & w)	Coronet	1	Pr. Jr.
SS-549	Let's Build a House (colour)	C.W.	1	Pr.
SS-486	Moving Day: Timmy's New Neighbours (colour)	Coronet	1	Pr.
SS-291	Seasons of the Year (colour)	Coronet	1	Jr. Int.
SS-519	Service Station (colour)	P.D.	1	Pr.
SS-294	Skipper Learns a Lesson (b & w)	E.B.	1	Pr. Jr.
SS-116	Spring on the Farm (colour)	E.B.	1	Jr.
SS-119	Summer on the Farm (colour)	E.B.	1	Jr.
SS-327	Ti-Jean Goes Lumbering (colour)	N.F.B.	1½	Pr. Jr.
SS-505	Ti-Jean In the Land of Iron (colour)	N.F.B.	2½	Jr.
SS-412	Waterworks, A Visit to the (b & w)	E.B.	1	Jr.
SS-204	Winter on the Farm (colour)	E.B.	1	Jr.

THE WARS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
SS-631	Second World War: Prelude to Conflict (b & w)	E.B.	3	Sr.
SS-520	World War I: The Background (b & w)	Coronet	1	Int.
SS-517	World War I: The War Years (b & w)	Coronet	1	Int.
SS-521	World War I: Building the Peace (b & w)	Coronet	1	Int.
SS-414	World War I (b & w)	E.B.	2½	Int. Sr.
SS-415	World War II (b & w)	E.B.	2½	Int. Sr.

Call No.	Film Title	Producer	No. of Reels	Curr. Division
	TEACHER TRAINING			
T-38	Adolescents, Meeting the Emotional Needs of (b & w)	McG.-H.	2	
T-39	Age of Turmoil (b & w)	McG.-H.	2	
T-75	And the Walls Came Tumbling Down (b & w)	O.T.F.	2½	
T-48	Angry Boy	MHFB	3	
T-19	Answering the Child's Why (b & w)	E.B.	2	
T-49	Audio-Visual Materials in Teaching (b & w)	Coronet	2	
T-60	Audio-Visual Supervisor, The (colour)	I.F.B.	1½	
T-1	Baby's Day at Twelve Weeks (b & w)	E.B.	1	
T-2	Balloons (b & w)	Goodyear	2	
T-3	Behaviour Day at Forty-Eight Weeks (b & w)	E.B.	1	
T-31	Better Reading (b & w)	E.B.	2	
T-4	Broader Concept of Method: Developing Pupil Interest (b & w)	McG.-H.	2	
T-5	Broader Concept of Method: Planning and Working Together (b & w)	McG.-H.	2	
T-58	Bulletin Boards, An Effective Teaching Device (colour)	Bailey	1	
T-65	Chalk and Chalkboards (b & w)	Bailey	1¼	
T-50	Chalkboard Utilization (b & w)	McG.-H.	1½	
T-76	Charts for Creative Learning (colour)	Bailey	1	
T-20	Child Care and Development (b & w)	McG.-H.	2	
T-21	Children's Emotions (b & w)	McG.-H.	2	
T-73	Children Learn Through Filmstrips (colour)	N.F.B.	2	
T-40	Curriculum Based on Child Development (b & w)	McG.-H.	1	
T-66	Diagnosis and Planning Adjustments in Counselling (b & w)	McG.-H.	2	
T-41	Each Child is Different (b & w)	McG.-H.	1½	
T-6	Early Social Behaviour (b & w)	McG.-H.	1	

Call No.	Film Title	Producer	No. of Reels	Curr. Division
T-7	Education for the Deaf (b & w)	B.I.S.	6	
T-61	Facts About Film (colour)	I.F.B.	1	
T-62	Facts About Projection (colour)	I.F.B.	1	
T-79	Family, The (b & w)	U.W.	2	
T-51	Fears of Children (b & w)	I.F.B.	3	
T-55	Feltboard in Teaching (b & w)	Wayne U.	1	
T-77	Flannelboards and How to Use Them (colour)	Bailey	1½	
T-63	Flannelgraph (colour)	I.F.B.	3	
T-53	From Social Sixes to Noisy Nines (b & w)	N.F.B.	2¼	
T-56	From Ten to Twelve (colour)	N.F.B.	2	
T-42	Good Speech for Gary (b & w)	McG.-H.	2	
T-59	Gregory Learns to Read (colour)	Wayne U.	3	
T-52	Habit Patterns (b & w)	McG.-H.	2	
T-69	Hickory Stick (b & w)	M.H.F.B.	2¼	
T-17	How to Make Handmade Lantern Slides (colour)	Ind. U.	2	
T-22	Importance of Goals (b & w)	McG.-H.	2	
T-23	Individual Differences (b & w)	McG.-H.	2	
T-67	Insuring Our Investment in Youth (b & w)	General	1½	
T-24	Introduction to Student Teaching (b & w)	Ind. U.	2	
T-32	Learning Through Co-operative Planning (b & w)	H.M.	2	
T-8	Learning to Understand Children: A Diagnostic Approach (b & w)	McG.-H.	2	
T-9	Learning to Understand Children: A Remedial Programme (b & w)	McG.-H.	2	
T-12	Maintaining Classroom Discipline (b & w)	McG.-H.	1½	
T-47	Making Films That Teach (colour)	E.B.	1½	
T-70	Mathematics at Your Fingertips (colour)	N.F.B.	3	
T-44	Meeting In Session (b & w)	Col. U.	2	
T-33	Mental Health (b & w)	E.B.	1	
T-25	Motivating the Class (b & w)	McG.-H.	2	
T-78	New Dimensions in Teaching Films (colour)	Coronet	2½	
T-34	New Tools for Learning (b & w)	E.B.	2	
T-43	Our Invisible Committees (b & w)	Impco	2½	

SOUND FILMS

Call No.	Film Title	Producer	No. of Reels	Curr. Division
T-35	Practising Democracy in the Classroom (b & w)	E.B.	2	
T-26	Principles of Development (b & w)	McG.-H.	2	
T-27	Problems of Pupil Adjustment — The Drop Out (b & w)	McG.-H.	2	
T-28	Problems of Pupil Adjustment — The Stay In (b & w)	McG.-H.	2	
T-64	Profiles of Elementary Physical Education (colour)	Coronet	3	
T-36	Report in Primary Colours (colour)	Virg. U.	3	
T-45	School Board in Action (colour)	N.S.B.A.	2	
T-46	Skippy and the Three R's (colour)	N.E.A.	2½	
T-29	Social Development (b & w)	McG.-H.	2	
T-74	Standardized Test — An Educational Tool (b & w)	I.F.B.	2	
T-71	Teaching Machines and Programme Learning (b & w)	U.S.O.E.	3	
T-54	They Grow Up So Fast (colour)	Am.H.S.	3	
T-57	Three R's Plus, The (b & w)	McG.-H.	2½	
T-68	Using Analytical Tools (b & w)	McG.-H.	2	
T-16	Using the Classroom Film (b & w)	E.B.	2	
T-72	Vital Decision, A (colour)	Scarboro	2	
T-37	We Plan Together (b & w)	H. Mann.	2	
T-30	Why Can't Jimmy Read? (b & w)	Syr. U.	1½	

Art

A-28 ANIMULES (Colour) 11 MINS.

Methods for the construction of several basic forms are illustrated, and possible variations are suggested. The importance of originality is stressed. This film is designed to encourage children's creative ability through making imaginary animals from wet paper, paste, and tempera colours.

A-39 ART AND CRAFTS IN NORWAY (Colour) 14 MINS.

The richness and diversity of Norwegian arts and crafts is illustrated in this film. Traditional ways are followed in making dyes for wool from lichens and other plants. The beauty of the scenery out-of-doors inspires many Norwegian craftsmen. Steps in designing and making a coffee pot are illustrated.

A-1 ARTS AND CRAFTS OF MEXICO 11 MINS.

This film shows the industries of the Mexicans, the work being done by hand, in the home and by the whole family. The making of serapes is shown from the raising and shearing of sheep to the spinning and weaving of the thread. The gathering, splitting, and weaving of bamboo into baskets are presented in detail. The film also shows the making of glassware by blowing and the marking of pottery. All these occupations are presented as arts and crafts of skilled workers.

A-29 ART AND MOTION (Colour) 16 MINS.

This film explains motion as an integral element of the visual arts. It portrays motion as found in objects of nature and as organized in space and time by a dancer and a skater. It geographically reviews contemporary trends in modern art, emphasizing ways in which artists today utilize motion in painting, in mobiles, and in camera techniques.

A-84 ART AND YOU (Colour) 11 MINS.

Introduces the student to the world of art, its nature, styles and modes of expression. For elementary through high school art appreciation and creative art classes.

A-38 ART FROM SCRAP (Colour) 11 MINS.

Sixth and seventh grade pupils are seen making a variety of interesting things — wire animals, a fairytale castle, masks, a picture with a three-dimensional look, posters, model stage sets and dioramas. No expensive supplies are required; the students themselves collect the odds and ends used. The film will motivate activity and suggest the idea of creating imaginative things out of an endless variety of materials.

A-62 ART IN THE WESTERN WORLD (Colour) 30 MINS.
The National Gallery of Art in Washington reveals its treasures before the camera. Starting with the 13th century, this film tells the highlights in the development of western art. The most important schools of art are represented.

A-94 ART OF METAL SCULPTURE (Colour) 22 MINS.
The film follows Professor McClure's design and construction of a large and impressive metal sculpture he was commissioned to create. We see his use of the welding torch, handsaw, vise, anvil, and hammer, and the fluid, workable property of metals under intense heat.

A-101 ARTIST IN NATURE (Colour) 11 MINS.
By directing attention to the way a creative artist sees and interprets his environment, this film seeks to stimulate original thinking and creativity on the part of the student, to help him become aware of the opportunities all around him for enjoying art, and to inspire him to search for experiences which will aid him in understanding and using art in everyday living.

A-70 BIRDS AND ETCHINGS (Colour) 5 MINS.
Various species of birds are shown. Close-ups reveal both boldness and subtleness of forms, colours, and textures which are characteristic of birds. Elementary children demonstrate the process of crayon etching as one method of expression.

A-85 CARAVAGGIO AND BAROQUE (Colour) 14 MINS.
As innovator and non-conformist, Caravaggio stands out against the background of the Baroque and man's fascination with space. He added to the social ferment of Reformation by bringing about a rebellion in the arts against the mannered idealism of the past. This study of his works shows that nature alone — the direct experience of the senses — was dramatization directly to nobleman and peasant alike, and had a vast effect on the development of artistic expression.

A-30 CERAMICS, SIMPLE 11 MINS.
Demonstrates the steps in the making of a fruit bowl by the hammock-mould method, using simple tools and ordinary potter's clay.

A-86 COLLAGE—EXPLORING TEXTURE (Colour) 13 MINS.
The making of collages — pictures made by applying materials to a flat surface — by children five to eight is depicted. A class is shown at work, guided by a skilled teacher. The children's selection of materials, interest in textures, and imaginative arrangements are shown; and means of motivating creative activity are indicated. The film is intended for primary and middle grades, for teachers and for teacher training.

A-53 COLOUR (Colour) 6 MINS.

In this film, children will explore new wonders of colour in nature, in pigments, in yarn, clay, wood, and other art materials. Avoiding formal colour harmonies, the film stimulates interest in experimentation, encourages children to "put colours together in your own way".

A-40 CRAYON RESIST (Colour) 6 MINS.

This film shows designs created by various uses of wax crayons and rubber cement. Two college students demonstrate the medium. A number of grade school children then use the materials and the results of their work are displayed.

A-63 CUBISM 7 MINS.

Animated diagrams and paintings are used to clarify this kind of painting. The cubist tendencies are explained; multiple viewpoints, illusion of transparency, flat or decorative space, movement by repetition of design and interpretation of forms.

A-95 DAVID MILNE (Colour) 13 MINS.

This film shows many of Milne's paintings, letting you examine the style that was uniquely his own. The commentary, quotations from Milne's letters, tells in the painter's words, what was important to him and how he tried to put it down in paint.

A-87 DESIGN INTO SPACE (Colour) 11 MINS.

An unusual and exciting approach to three-dimensional design is introduced in "Design Into Space". Many sequences show clearly the materials and techniques which may be used to create types of space sculpture. Examples of the work of Gabo and Richard Lippold are included.

A-16 DESIGN TO MUSIC (Colour) 6 MINS.

A teaching film showing how to co-ordinate movement of the hand to the rhythm of music to create interesting abstract patterns. The use of chalk and pastels is demonstrated.

A-88 DESIGN WITH PAPER (Colour) 11 MINS.

Planned for use with Intermediate and Senior grades, this film explores the many structural and design possibilities in the use of paper. The last part of the film illustrates numerous practical applications of paper design.

A-89 DISCOVERING COLOUR (Colour) 15 MINS.

An exciting film for art classes. The art of mixing colour is shown in a beautiful visual presentation that is at once stimulating and educational. For elementary art classes.

A-90 DISCOVERING PERSPECTIVE (Colour) 14 MINS.

We live in a world of depth, of distance. Some things are close to us, some far away. We can create the appearance of distance on a flat surface by using perspective. Overlapping, vertical position, graying colours, varying detail, varying size, and converging lines are techniques used to create perspective. Any one or more of these methods helps to create the appearance of depth, or distance, on a flat surface.

A-91 DISCOVERING TEXTURE (Colour) 17 MINS.
All through life, we learn about textures by touching and looking. Some textures are man-made; some are natural. Discovering textures can be a daily adventure. Our world is full of many textures for us to enjoy . . . some we feel, some we see, and some we create.

A-96 DUERER AND THE RENAISSANCE (Colour) 14 MINS.
Albrecht Duerer, the famous German painter, holds a pivotal point in connecting the artistic development in Italy with that in Northern Europe. In his own work and life, his passage from the Middle Ages to the Renaissance can be observed. If any great movement can be said to be the work of one individual, the Northern Renaissance was the work of Albrecht Duerer.

A-71 ENAMELLING ART (Colour) 16 MINS.
A picture of the enamelling craft designed to stimulate involvement with design and technique for those who have limited experience. Students are shown at work enamelling on copper.

A-23 FIDDLE DE DEE (Colour) 6 MINS.
A fantasy of dancing music and colour. To "Listen to the Mocking Bird" on the violin, brilliant patterns ripple, flow, flicker, and blend. The artist, painting on film, translates sound into sight, as the colours follow and interpret every varying nuance of the tune.

A-17 FINGER PAINTING (Colour) 6 MINS.
A colour film designed primarily for teaching the art of finger-painting. It demonstrates various methods of handling the paint, and stresses good technique. It deals with elementary work with one colour and advanced work with many colours.

A-54 FORM (Colour) 6 MINS.
This film demonstrates how the character of an object is revealed through its form. Young viewers will enjoy the "What Is It?" game with forms that have a name. Exploring the different shapes to be found among everyday objects will create an awareness of the importance of form in the structure of art.

A-79 GLORY OF GOYA 17 MINS.
Goya's work reflects the opulence of the Spanish court in his paintings of Charles IV and the Royal family, and the horrors of the Napoleonic invasion in his "Disasters of War" series. A bull fight is recreated by means of rapid editing of a series of his Tauromaquia etchings.

A-97 GOTHIC ART (Colour) 18 MINS.
A search for spiritual beauty in an ugly world — that is the art of Northern Europe from the late 12th to the 15th century as seen in the great cathedrals and their decoration. Emphasis is placed on determining the origins of Gothic Art as manifested in St. Denis and Chartres. Structural developments are interwoven with iconographic, stylistic, religious and cultural ones to provide an overview of the many aspects of emerging art forms in the period.

A-80 GRANT WOOD 15 MINS.
Paintings by Grant Wood are reproduced with themes of farm life in the Midwest, as well as his "Parson Weems Fable" of George Washington, and the cherry tree and "Paul Revere's Ride".

A-72 GUERNICA—PABLO PICASSO 15 MINS.
Picasso painted Guernica as a protest expression of his abhorrence of war and brutality and it is this expression that dominates this film.

A-98 HOW TO MAKE A STENCIL PRINT (Colour) 11 MINS.
This film introduces simple ways to cut and print original stencils and the steps in making a stencil are reviewed. Then a variety of prints is made, using tempera paint on different textures of paper. The process of printing on cloth with permanent textile paints is shown in detail, including a demonstration of three-colour registration.

A-73 INSECTS AND PAINTING (Colour) 5 MINS.
Bugs and insects provide a variety of structures, patterns, and colours. Youngsters find insects serve as exciting subject matter for painting activities. Numerous examples of their work are shown.

A-48 JOLIFOU INN (Colour) 11 MINS.
Cornelius Krieghoff, celebrated Dutch artist and adventurer, recorded much of the story of French-Canadian life in the mid-19th century. The changing seasons, the untamed beauty of the Quebec countryside, and the French settlers provided subject matter for many of the paintings.

A-4 KLEE WYCK (Colour) 16 MINS.
In this story of Emily Carr, we see several of her paintings presented against a background of the scenes that inspired them. Beginning with early pictures of Indian villages, Klee Wyck traces the main stages of development as evidenced in her work. An evaluation of the artist's influence on contemporary Canadian art concludes the film.

A-49 KUMAK, THE SLEEPY HUNTER (Colour) 11 MINS.
Puppets are used to bring to life this old Eskimo legend. The clothing

and gear as well as the igloos are portrayed as they were before the white man's material and equipment were used in the northland.

A-74 LASCAUX—CRADLE OF MAN'S ART (Colour) 22 MINS.
The Lascaux cave paintings were discovered in France in 1940. This film is a photographed record of the primitive art found on the walls of these caves.

A-18 LEATHER WORK 22 MINS.
In the opening sequence each step in the making of a leather pouch handbag is demonstrated by a girl student. The second sequence shows the making of a leather wallet by a boy. The use of patterns, cutting, marking, punching, stitching, and the use of the required tools are very clearly pictured.

A-81 LEGEND OF ST. URSULA 11 MINS.
A re-telling of the legend of the beautiful princess from Britanny who married an English prince on the condition that he accompany her to Rome to be converted to her religion. The film is based on the seven paintings done about 1490 by the Venetian painter, Vittore Carpaccio.

A-64 LEGEND OF THE RAVEN (Colour) 14 MINS.
The Legend of the Raven tells an authentic legend of the Arctic. Employing genuine Eskimo stone carvings which are manipulated as actors on a miniature Arctic set, the film tells the simple Eskimo tale of how the raven, once able to talk with humans as well as with birds and animals, through greediness lost the power of speech.

A-55 LEONARDO DA VINCI (Colour) 25 MINS.
Camera crews filmed sequences in world-famous churches and museums in Italy and France. The many accomplishments of this great figure of the Renaissance are revealed. The music is one of the finest scores ever included in any film.

A-56 LIGHT AND DARK (Colour) 6 MINS.
Striking camera studies in light, shadow, and gradations of colour illustrate the meaning of values in art. Children are encouraged to find out by experimentation with light and dark objects, what value is, what it does, and how it makes them feel.

A-57 LINE (Colour) 6 MINS.
Variations in the qualities of lines may be found in nature — in lines on rocks, on a tiger, and in the trail made by a snail. Combining imaginative photography with animation, this film clarifies line movement and suggests to children the creative possibilities of materials such as thread, rope, and wire as well as paint, chalk and crayon.

A-92 LINE AND ART (Colour) 11 MINS.

Concepts of line as visual images are developed, beginning with the phenomenon of line in nature and man-made forms. Through excellent selections ranging from the primitive and the "old masters" to the contemporary, the film emphasizes the artist's response to various media, indicates how form and volume can be evolved from line, and illustrates illusions of space and tension, as well as the infinite possibilities for innovation and interpretation through line.

A-102 LINES IN RELIEF: WOODCUT AND BLOCK PRINTING (Colour) 11 MINS.

The highlights in the history of woodcutting and block printing are reviewed, from the Middle Ages to the present. Clear descriptions of basic cutting and printing techniques are presented. The student is given an opportunity to observe the creation of a fine woodcut; the selection of tools and materials and the techniques used.

A-31 LISMER (Colour) 20 MINS.

This film reviews the artist's work, and emphasizes his contribution to art education and to contemporary Canadian painting. We see how children, through his teaching, learn the independence of self-expression. While reproductions of his paintings appear on the screen, the commentary calls attention to features of his work which reveal the development of his personality as an artist.

A-24 LOOM WEAVING (Colour) 6 MINS.

Children are shown working at cradle or box looms which they have made. Finished articles are also displayed. This film is designed to motivate weaving. Suitable for Grades Six to Ten.

A-19 LOON'S NECKLACE, THE (Colour) 11 MINS.

A unique method is used to relate the Indian legend of how the loon got the striped band around its neck. Carved and painted masks made by the Indians of British Columbia for their ceremonies are used as the characters. Actors in costume, wearing the masks, do much of the acting in pantomime. Enacted with dignity, this film has both beauty and legendary interest. Art students would find it of value for inspiration in the craft of mask-making.

A-5 MAKING OF A MURAL (Colour) 11 MINS.

Thomas Hart Benton's mastery of paints and the brilliance of colour photography are combined to produce this educational motion picture.

A-25 MASK, MAKING A (Colour) 6 MINS.

The film shows children ranging in age from nine to fourteen receiving guidance in making masks. A different way of making a mask is carried out by each child. Use is made of scrap material.

A-20 MODEL HOUSE MAKING (Colour) 6 MINS.
The building of a model community is presented and planned. It includes streets, houses, shops, playgrounds, schools and churches. Many odds and ends of materials are used in this work.

A-6 MODERN LITHOGRAPHER 11 MINS.
Shows the process of lithography by the direct and photographic offset methods. The film begins with an artist copying a portrait with special ink and brushes on a slab of Bavarian limestone. The complete process of transferring the portrait from metal plate to rubber plate and finally to paper is explained and illustrated. The modern method of the photo-offset process is also explained and illustrated.

A-41 MONOTYPE PRINTING (Colour) 6 MINS.
In the film you see demonstrations on glass with household cement. After this dries, paint is spread over the surface with a brush. Paper is smoothed over the design and the finished print is removed.

A-21 MOTHER GOOSE (Colour) 11 MINS.
Mother Goose steps out of the nursery rhyme book and with her magic wand brings some of her favourite characters to life, including Little Miss Muffet and Humpty Dumpty, portrayed by animated figurines.

A-65 MURAL (Imperial Oil Building) (Colour) 30 MINS.
This film documents the production of the large twin murals in the foyer of Imperial Oil's office building in Toronto. Step by step, the film recounts the task of creating the giant murals — the off-site planning, sketching, painting and finally the transfer of the work to the walls of the lobby. While basically educational, the film serves to introduce and explain the techniques and objectives of the artist, and to create interest in a work which laymen may otherwise find difficult to understand.

A-58 NATURE OF COLOUR (Colour) 11 MINS.
This film takes up and demonstrates Newton's explanation of the rainbow, the principles of colour reflection and absorption, the mixing of colours by addition and by subtraction and the application of colour principles to painting, printing and photography.

A-66 NON-OBJECTIVE ART (Colour) 11 MINS.
This film establishes what this style is and how it differs from other types of painting, points out non-objective things in nature, explains the basic elements of line, shape and colour. It shows the uses of non-objective art in industrial design, unique interests of the creative painter and outstanding examples of noted painters.

A-59 ORIENTAL BRUSHWORK (Colour) 16 MINS.

Featuring masterpieces from the Freer Gallery of Art and demonstrations of brushwork by Tyrus Wong and Chiura Obata, this film reveals the distinctive characteristics of Oriental painting: dexterity and expressiveness in the use of space and line, and the power to create a mood or communicate an idea through symbolism. It illustrates how Chinese and Japanese artists use brushes, inks, and colours on silk scrolls and fibre paper.

A-99 PAINTING A PROVINCE (Colour) 23 MINS.

New Brunswick's rugged coasts, peaceful farms and growing towns inspired past generations of artists. Many of today's generation of painters are seen as they explain their own particular concepts and ideas. From their paintings and those of artists of the past you see how closely linked to their own soil and history is the artistic expression of each generation.

A-35 PAINTING TREES WITH ELIOT O'HARA (Colour) 16 MINS.

On a sketching trip, Eliot O'Hara shows us different trees in many parts of America and Hawaii. He points out the symbols in trees; for example, the maple suggests the letter U, the sycamore branch, a sickle. As he sketches, he explains the special techniques required to paint different trees and to express their individualities. This film should be an effective aid in learning the use of water colour in landscape painting.

A-67 PAINTING WITH CALLIGRAPHY (Colour) 12 MINS.

The history of calligraphy — or picture writing — in art is traced from prehistoric times to the present day. Varied uses of calligraphy are shown in demonstrations by Eliot O'Hara, George Post, and Paul Travis, and in examples from the works of Burchfield, Dufy, Klee, Marin and Van Gogh.

A-22 PAPER SCULPTURE (Colour) 6 MINS.

From a collection of all types of paper and salvage materials together with glue and paint, objects are created. These include people, animals, masks, etc.

A-42 PAPIER MACHE ANIMALS, HOW TO MAKE (Colour) 16 MINS.

Animals made from newspaper and string are displayed, and the demonstration includes uses for such animals as toys, decorations, etc. Emphasis is placed upon creative expression through experimentation and use of available materials.

A-75 PERSPECTIVE DRAWING 11 MINS.

A basic film for art instruction, introducing theory and principles of perspective through clear and forceful animation. A cube is used as a basic form. Then the film proceeds to demonstrate one point, two point, and three point perspective techniques.

A-26 PICTURE MAKING, BEGINNING OF (Colour) 6 MINS.
A teacher acts as a guide and counsellor with young children making pictures. The pupils are helped to say what they want to say in the way they want to say it. This film is useful to teachers of Kindergarten and the Primary Division.

A-27 PICTURE MAKING AT THE GANG AGE (Colour) 6 MINS.
This film depicts the picture-making activities of pre-adolescents. How children paint at this level is shown. Difficulties which the child encounters in his picture-making and with which he requires guidance have been well handled. The film touches upon the classification of children as visual or non-visual in art output. Suitable for teachers of Junior Division.

A-43 PICTURE MAKING BY TEENAGERS (Colour) 11 MINS.
This film illustrates the equipment required for picture-making by adolescents. Themes for expression and variety of output are shown. Some attention is also given to pedagogical problems and teaching procedures associated with an art programme for this age group.

A-7 PLASTIC ART 11 MINS.
A sculptor sets out to produce a bronze casting to interpret the theme "progress through man's confidence in his fellow man". The drawing of the sketch, the making of the model, the casting of the model in plaster, and finally the finishing touches are all shown and commented upon.

A-50 POSTER MAKING: DESIGN (Colour) 11 MINS.
Poster layout, lettering, tracing, cutting, transfer, stencilling, and painting are manually demonstrated. The importance of correct techniques in the use of the various brushes is cited. Colour contrast, layout, lettering, measurement, and spacing are stressed. For use in Senior grades.

A-51 POTATO PRINTS, HOW TO MAKE (Colour) 16 MINS.
This film demonstrates how to cut, paint and stamp potato prints on paper. Variations of texture, form, and colour with different types of paper and varied uses for finished prints are shown. The care of tools is explained.

A-32 POTTER'S WHEEL, THE 11 MINS.
The proper method of "throwing" on the potter's wheel is shown. Two basic shapes, a small pitcher and handle, and a larger model pitcher are illustrated.

A-9 PRIMITIVE PAINTERS OF CHARLEVOIX (Quebec) (Colour) 22 MINS.

Four artists of Charlevoix County, Quebec, appear in this study of French Canadian primitive painting. Cecile Bouchard, Alfred Deschenes, Marianne Simard and Robert Cauchon are shown at work in the surroundings from which they draw their inspiration. The commentary calls attention to their different techniques and choice of subject matter.

A-76 PRINT WITH A BRAYER (Colour) 8 MINS.

An art film that explores many possibilities of making creative prints with a gelatin brayer. Useful in classes on all grade levels, this simple, basic technique can be varied to make both decorative and practical prints, including book jackets, place mats, wrapping paper, greeting cards, and fabrics.

A-44 PUPPET, HOW TO MAKE A (Colour) 16 MINS.

The construction of a puppet, including head and hands, from plasticine, papier mâché and paint is demonstrated. How puppets are controlled is also shown.

A-10 PUPPETRY 11 MINS.

This film will supply excellent motivation for puppetry in schools. Books dealing with puppetry will be required to supplement the film since few details of construction are given.

A-52 REMBRANDT (Colour) 27 MINS.

This analysis of the life and works of Rembrandt Harmenszoon van Rijn combines knowledge, insight, and cinema technique. Not only the people and events of Rembrandt's life, but his feelings about them and about himself are clearly revealed in his sketches, self-portraits, and paintings. They provide both a graphic biography and a record of his world and time.

A-36 REMBRANDT: POET OF LIGHT 16 MINS.

A new biographical and documentary film on the life of the great Dutch painter whose work is known for his masterful use of the alternations of light and dark. It is composed entirely of his drawings and etchings, as well as a large number of his best known paintings. These are used to illustrate the loved personalities and main phases of his life.

A-45 RHYTHM IN PAINT (Colour) 11 MINS.

In this film we are shown how rhythmic patterns are created, starting with a line, a curve, or an angle. In the artist's treatment of the chosen motif, constantly recurring and changing in emphasis, we can see rhythm and recognize its creative function.

A-100 RISE OF GREEK ART (Colour) 18 MINS.

An appreciation of the close relationship between Greek cultural history and the evolution of visual expression is developed through a study of the major monuments of the period. The film presents a coherent picture of the development of Hellenic art from the geometric eighth century B.C. to the Classical Age of Pericles in the fifth century. In broad scope, the rise of Greek art is followed through its various periods, cutting across art forms from architecture, to sculpture, to pottery with its painted decoration.

A-33 SCULPTURE FROM LIFE 11 MINS.

An expert craftsman demonstrates the approved technique for using raw clay in the construction of a life-size head. Close-up photography shows the detail of forming eye sockets, building of the nose, etc.

A-37 SEASONS, THE (Colour) 16 MINS.

The story of nature during a twelve-month period along the shores of a Canadian lake is unfolded in beautiful colour sequences. Nature is revealed in all her changing moods — the quiet beauty of a placid lake; grotesque frozen shapes on the lakeshore during winter; and the tempestuous glory of a summer storm.

A-34 SILK SCREEN PRINT, HOW TO MAKE A 20 MINS.

The step-by-step procedures of making a multi-colour silk screen print are illustrated. Sequences show the use of the original sketch, preparation of silk and paints, use of squeegee, pro-film tusche and liquid tusche print making.

A-77 SILK SCREEN PRINTING 22 MINS.

The essential steps in making a silk screen print are outlined. Basic equipment requirements, and the various steps in production receive emphasis. The preparation of the screen, cutting the stencil, stripping, adhering, lacquer-layout, and cleaning of equipment are illustrated.

A-60 TEXTURE (Colour) 6 MINS.

The exploration of surfaces — hard, rough, soft, and smooth — provides a tangible approach to understanding textural qualities in art. Visual examples in the film will give youngsters a new appreciation of the textural effects which can be achieved with clay, metals, paper, linoleum, and other art materials.

A-12 THIRD DIMENSION (Sculpture) 22 MINS.

Several well-known artists are shown at work in this survey of modern Canadian sculpture. We watch a figure being built up with successive additions of clay, and see a plaster mould being made from a clay model. Among the sculptors whose work is illustrated are Frances Loring, Jacobine Jones, Donald Stewart and Louis Parent.

A-47 TORN PAPER (Colour) 6 MINS.

First, using newspaper as practice material, and then working with sheets of different coloured paper, students are shown tearing out a variety of shapes, figures, and designs. These are then pasted on a paper background to form clever and unusual pictures.

A-82 TOULOUSE LAUTREC 17 MINS.

Scenes of Paris of the 1885–1900 era are depicted in the sketches, paintings, and lithographed posters of Toulouse Lautrec.

A-83 VARLEY (Colour) 16 MINS.

A portrait of Frederick Varley, Canadian painter of the Group of Seven. Following Varley as he returns to his studio in Toronto after a sketching trip in the country, the camera moves about the studio selecting examples of his work which typify his sensitive reaction to the world about him — reactions particularly evident in the work he did as a World War I artist and in his emotional response to the beauty and wonder of life.

A-68 VELAZQUEZ (Colour) 16 MINS.

A critical analysis of the work of Velazquez as exemplified by paintings in the Prado Museum is presented. Works shown include "Surrender of Breda", "Crucifixion", a portrait of Philip IV, and a self-portrait.

A-78 WEEDS AND MOSAICS (Colour) 5 MINS.

Weeds serve as inspiration for creating pebble mosaics. Children on a field trip find rhythmical arrangements, strange shapes, and exciting forms within weeds. Striking, decorative mosaics are the products of this enjoyable experience.

A-14 WEST WIND (Colour) 22 MINS.

This film illustrates how successfully Tom Thomson transmitted to canvas the colours of the Northern Ontario autumn and winter. This is done by showing many of his sketches and scenes of the Algonquin Park countryside which was his painting ground.

A-61 WHAT IS ART? (Colour) 6 MINS.

A vivid parade of all the elements featured in the "Art in Action Series" — colour, line, texture, form, light and dark — encourages children to discover the basic elements in the world around them, to find new relationships, to experiment with a variety of materials, and to understand what the elements mean in terms of art.

A-93 WHAT SHALL WE PAINT (Colour) 11 MINS.

Ideas to paint are everywhere, as the children in this film discover. An excellent film to stimulate your classes to creative activity in the arts.

A-69 WIRE AND PAPER ANIMALS (Colour) 11 MINS.

This film shows interesting and amusing ways of planning craft work with children of almost any age. The materials required for the craft are discussed, and the main stages of the construction of many types of models are analyzed in detail. The simplest forms can be used by quite young children, while the more elaborate models give scope for the older, more experienced classes.

Commercial

C-1 MACHINE TRANSCRIPTION— 25 MINS.
Part I: Machine Operation

This film presents the fundamentals of construction and operation of the two major dictating and transcribing machines, the Dictaphone and Ediphone. The various parts of the machines are described in detail, and the correct technique to be followed by the operator in their use is very clearly demonstrated. It also demonstrates the operation of each of the shaving machines — how to set the controls, the proper method of placing the cylinder on the machine, and how to remove it without injury to the surface.

C-2 MACHINE TRANSCRIPTION— 25 MINS.
Part II: Transcription Technique

This film demonstrates the proper method of phrasing in machine transcription, at gradually increasing speeds; the organization of the day's work, the interpretation of the index slip in terms of the length of letter, corrections to be made, and special instructions with regard to the priority to be given to different parts of the transcription.

C-10 OFFICE COURTESY (Colour) 12 MINS.

Dramatizes techniques for office workers in meeting and working with persons outside the company, face to face and over the telephone. Emphasizes the importance of courtesy and thoughtfulness and reveals how the employee's attitude may, without his realizing it, have considerable effect on his company's success.

C-11 OFFICE ETIQUETTE 14 MINS.

Shows how courtesy can be applied to typical situations such as applying for a job, reporting for work the first day, and performing routine secretarial duties. Emphasizes consideration for fellow workers and employer, telephone courtesy, promptness, and desirability of a friendly but businesslike attitude while on the job.

C-3 OFFICE MACHINES, MAINTENANCE OF 25 MINS.

This film traces in detail the care and maintenance of typewriters of every brand and model; transcribing machines, including the Dictaphone and the Ediphone; and adding and calculating machines. It presents very effectively the necessary care to be given these machines by the stenographer or operator in order to protect them against dust and careless usage, and also forcefully demonstrates the dangers encountered by the amateur who is inclined to attempt repairs which should be left to the skilled maintenance man.

C-12 OFFICE TEAMWORK (Colour) 12 MINS.
Illustrates the importance of co-operation among the members of a business organization. Dramatizes representative office situations in which teamwork is extremely important, and reveals the effects of various employee attitudes on company morale and business.

C-4 SECRETARY TAKES DICTATION 11 MINS.
Illustrates the procedures and practices in taking dictation in a business office. The film can be used in shorthand classes to motivate study and present professional information. Presents duties of a secretary in a modern office, as compared with those of a stenographer or clerk, with emphasis on the efficient organization of the work of the secretary.

C-5 SECRETARY TRANSCRIBES 11 MINS.
Follows a secretary through the transcription of a typical day's notes and gives to secretarial students a picture of many of the details that are involved in transcribing in a business office. An understanding of the additional office habits beyond knowledge of shorthand and typing that differentiate a good secretary from a stenographer is one of the objectives of this film. The necessity for experience and the mastering of the skills and habits of thought that make a valuable secretary are emphasized.

C-6 TYPE, READY TO 11 MINS.
Typing efficiency begins with intelligent preparation. When George gets ready to type, he places all his materials conveniently, adjusts his machine and chair, and takes time for conditioning practice to establish control. Jane types without preparation. The film contrasts their typing efficiency.

C-9 TYPING SKILLS, BUILDING 11 MINS.
George wants to increase his typing speed, but as he pushes into higher speed areas he finds that his typing is no longer smooth, even and accurate. By practice he masters relaxation, precise operative control, attention to the copy, control of arms and hands, and confidence at top speed. The slow motion camera catches the details of his exercises.

English

E-53 ADVENTURES OF A BABY FOX 14 MINS.
A refreshing trip through the woods, following the antics of a baby fox. The camera searches out the tiny, busy insect life of a lake, a frightened bird and lovely flowers along the way. Accompanied by narration in verses and original music score.

E-79 ADVENTURES OF A CHIPMUNK FAMILY (Colour) 11 MINS.
The story of a chipmunk family and especially of young babies from early spring to the beginning of winter. The film shows the newborn chipmunk babies and their training period during the early summer. Through use of a special device, it is possible to observe the chipmunk digging his burrow, collecting his store of food, and settling down for the winter rest.

E-39 ANCIENT MARINER, THE 30 MINS.
Produced by the University of California, this film is a sound recording of the spoken poem accompanied by Dore's engravings. This classic poem should become more real and imaginative to secondary school students through this interpretation.

E-103 ARISTOTLE'S ETHICS, Book 1— THEORY OF HAPPINESS (Colour) 30 MINS.
Mr. Adler considers the philosophical problems of "what makes a human life good . . . what makes it worth living and what we must do, not merely to live, but to LIVE WELL".

E-104 ATHENS—THE GOLDEN AGE (Colour) 30 MINS.
Charles Kahn gives an answer to the ever recurring question: Why is Fifth-Century Athens considered by many to have been the most civilized society that has yet existed?

E-25 AUTUMN IS AN ADVENTURE (Colour) 11 MINS.
The purpose of this film is to give a good general background for stories dealing with the autumn season. It would be effective in Grades two and three. Caroline and Timmie have a series of adventures, raking leaves, seeing squirrels, playing in the woods, watching birds getting ready to migrate, watching corn and pumpkins being harvested, etc. Some words are presented on the screen as is a song. Children are asked to join in singing this song.

E-54 BIRDS OF OUR STORY BOOKS (Colour) 11 MINS.
The robin, cardinal, crow, owl, blue jay, sparrow, redheaded woodpecker, wren, and seagull — birds which children encounter must frequently in their story books and texts — are shown both as they appear in book illustrations and as they are in their natural settings.

Characteristics of the birds — their colouring, calls, and easily observed habits — are carefully integrated with poems and stories at the primary level.

E-66 BROWN BEARS GO FISHING (Colour) 11 MINS.
Unusual and interesting scenes of brown bears in Alaska show the bears as they eat, swim, fish, and care for their young. Overprints and repetition in the narration help children to develop the vocabulary they will use in reading and telling stories about the brown bears and black and polar bears.

E-80 CARPET UNDER EVERY CLASSROOM 14 MINS.
This film depicts a creative and resourceful library programme as an integral part of a modern high school. It shows how good library service aids teachers, students, and administration in realizing educational objectives.

E-21 CHUCKY LOU (Colour) 11 MINS.
Chucky Lou, a woodchuck, becomes the pet of the keeper of a public park. The film provides a picture of her habits, tricks, and her experiences with her master and with young visitors.

E-81 CORRAL 11 MINS.
The roping and riding of a high-spirited, half-broken horse is the subject for a film which makes visual poetry of this simple theme. Movement and music combine to tell a story without words, set in the foothills of Alberta, as we watch a cowboy perform a task which is part of a centuries-old tradition of the West.

E-82 CUCKOO CLOCK THAT WOULDN'T CUCKOO, THE (Colour) 11 MINS.
This is a delightful story of a silent little cuckoo bird in the royal cuckoo clock, and of how Hans Ticktocker, master clockmaker, broke the spell of her silence and helped her to cuckoo happily once again. Colourful in its animation and intriguing in its picturesque, Old World setting, the film is designed to arouse children's interest in reading and oral expression.

E-113 DAVID AND MR. MICAWBER 24 MINS.
Events of "David Copperfield" are re-enacted in this film, showing the boy David, befriended by the Micawbers. The characters are realistic, the background authentic, and narration and dialogue are used from the book.

E-11 DO WORDS EVER FOOL YOU? 11 MINS.
In personal conversations, in newspaper headlines, in radio commercials, in politics, in every phase of modern living, word trickery has serious consequences. Not only does this film show students

the nature of the danger, but it outlines specific precautions to prevent confusion in the meanings of words.

E-83 ELEPHANT BABY (Colour) 11 MINS.

In the vivid setting of the tropical rain forest of Mysore, India, this film tells the story of a baby elephant, from his first day in the forest, through the many weeks of training in a classroom made of bamboo poles, to the day he joins a working force of elephants in a teakwood lumber camp. The film gives a true and fascinating account of the daily activities of working elephants and the people who train them.

E-12 ENGLAND, BACKGROUND OF LITERATURE (Colour) 11 MINS.

This film takes students to England to show them that storied land as the inspiration for the nation's greatest writers — the London of Chaucer, Dickens and Browning — the countryside which was so meaningful to Shakespeare, Keats, Wordsworth and Kipling — and the sea, as Coleridge, Conrad and Masefield wrote of it.

E-67 ENGLISH LITERATURE: THE ROMANTIC PERIOD (Colour) 14 MINS.

Through the eyes of a young journalist of 1828, the audience participates in a period of literary, as well as political, revolution. Dramatized selections from Burns, Wordsworth, Coleridge, Blake, Byron, Shelley, Keats, and Scott reveal the individuality and independence of spirit of England's Romantic writers.

E-84 ENGLISH LITERATURE: THE SEVENTEENTH CENTURY (Colour) 13 MINS.

Excerpts from the works of seventeenth-century writers are presented against the turbulent background of the Commonwealth and Restoration periods. Cavalier poets such as Jonson, Herrick, and Lovelace; Puritan writers such as Milton and Bunyan; and other literary figures of the century such as Donne, Marvell, Pepys, and Dryden are represented.

E-29 ENGLISH LYRICS (Colour) 11 MINS.

The lyrics of Tennyson, Keats, Wordsworth, Shelley, Shakespeare and other English immortals are presented against the actual English scenes as the poets saw them. Views of the Shropshire country, surf at Dover Beach, and the English countryside in the spring are among the backgrounds chosen.

E-26 FLIPPER THE SEAL (Colour) 11 MINS.

The film opens with scenes at the zoo. A boy looks for information about seals in his books. He finds out where seals live, and the film takes us to a Pacific Island to watch them. The words flipper, fur, swimming, waves, and dive are presented on the screen and the children are asked to repeat them.

E-55 FLUFFY THE OSTRICH (Colour) 11 MINS.

Fluffy, a very young ostrich, becomes separated from his mother and father and, while searching for them, comes upon a turtle, zebras and a giraffe. The story of Fluffy teaches children much about the habits and characteristics of ostriches.

E-27 FRANK AND HIS DOG (Colour) 6 MINS.

The film portrays the antics and pranks of Penny, young Frank Baxter's pet dog. When the Baxters are too busy with their Saturday chores to play with Penny, he gets into mischief and chases a neighbour's cat up a tree. The cat is rescued, and Penny is scolded; but later he is made to feel that the Baxters love him in spite of what he has done.

E-14 FRISKY, THE CALF 11 MINS.

Designed to stimulate interest and provide a background for reading and expression, this film takes the children to the farm where they see how Frisky, the lovable little calf, grows up.

E-74 FROG PRINCESS, THE (Colour) 6 MINS.

The quaint Fairyland setting of this film in animation will excite children. The prince shoots an arrow into the air, and the one who returns it will be his bride. A frog, who is a princess under the spell of a wicked magician, finds the arrow, and the prince then encounters many dangers as he frees her from enchantment.

E-47 FUN WITH SPEECH SOUNDS 11 MINS.

This film shows how some difficult sounds should be spoken. Through audience participation children are encouraged to pronounce sounds which are used in poems and rhymes.

E-105 GLOOSCAP COUNTRY (Colour) 14 MINS.

The rich scenic panorama of Nova Scotia's Minas Basin gives substance to the story of Glooscap, an Indian god who was believed to live on what is now Cape Blomidon and from his mountain retreat to watch over his people in the valleys and forests below. This film relates how Cape Split came into being, how Five Islands rose from the sea, why the bullfrog lives in muddy water, and why the beaver drags his tail.

E-40 GOLDEN AXE, THE 11 MINS.

Adapted from Aesop's fable, this film points out the moral that honesty is the best policy. A woodsman loses his rusty axe. He refuses to accept a silver and a gold one until he is assured that he is welcome to them. When his greedy neighbour tries to fall into the same good luck, unhappiness results.

E-56 GOLDILOCKS AND THE THREE BEARS (Colour) 11 MINS.
Starring three real bears, this much-loved children's story is retold in a presentation which remains faithful to the incidents and characteristics of the original tale.

E-106 GREEK LYRIC POETRY (Colour) 30 MINS.
David Grene considers another important aspect of Greek culture . . . lyric poetry. A dramatization of a lyric chorus, led by noted British actor, John Neville, is a highlight.

E-90 HAMLET: THE AGE OF ELIZABETH (Colour) 30 MINS.
The background of Elizabethan England as well as a comparison of the Globe Theatre and the modern theatre.

E-91 HAMLET: WHAT HAPPENS IN HAMLET (Colour) 30 MINS.
The major characters, the major movements and their relationship with one another are discussed.

E-92 HAMLET: THE POISONED KINGDOM (Colour) 30 MINS.
Poison plays an important part in the play "Hamlet" and in this film we are given a clear insight into just how important poison can be in any relationship.

E-93 HAMLET: THE READINESS IS ALL (Colour) 30 MINS.
The character of Hamlet is analyzed.

E-114 HANSEL AND GRETEL (Colour) 11 MINS.
The Woodcutter, Hansel and Gretel, the Green Witch, and the forest creatures come to life in this well-known Grimms' folk tale. This picture contains some important concepts for primary children. Hansel and Gretel are courteous, helpful, and industrious children who take care of their father's house in the forest. In their efforts to help, they learn that it can be dangerous to talk with strangers or to accept food from them.

E-1 HARE AND THE TORTOISE 11 MINS.
Aesop's story of the turtle and the rabbit who had a race is here retold with an all-star animal cast of real animals, including a wise old owl, a fox, a gossiping goose, a rooster, and a raccoon. These real animals re-enact the story. The animal actors seem to talk to one another, while the sound track gives them "voice".

E-57 HOPPY, THE BUNNY (Colour) 11 MINS.
One beautiful morning, Hoppy meets his friends, the raccoon and the owl, and for the first time hops out of the deep woods and sees life on a farm. He meets chickens, pigs and tame white rabbits; then, after being chased by a dog, Hoppy returns home safe and sound.

E-58 IT'S FUN TO READ BOOKS 11 MINS.
Intended to develop an attitude in younger children that will lead to habits essential to the enjoyment of reading, this film raises and answers such questions as: "Where do we get the books we want? How should we take care of books? How do we get fun from books?"

E-28 JEAN AND HER DOLL (Colour) 6 MINS.
Jean and her friend Betty have a busy afternoon playing with their dolls. Jean confides that her doll, Nancy, has not been well and perhaps is getting the measles. Jean's mischievous brother, Frank, overhears this remark, and, while the dolls are taking their naps, he paints red spots on Nancy's face. The girls are surprised, but they think of a clever way to teach Frank a good lesson.

E-2 JULIUS CAESAR (Act III, Sc. 2) 22 MINS.
This is the picturization of Act 3, Scene 2, of Shakespeare's historical tragedy dealing with the assassination of Julius Caesar. The setting is in the Forum of Rome, 44 B.C. The film shows the announcement of Caesar's death and a mob assembling to be addressed by Brutus. Mark Antony delivers the famous funeral oration. Latin and literature classes, speech classes and students of history and psychology would all find this film useful.

E-48 KING MIDAS, STORY OF (Colour) 11 MINS.
This story is dramatized with the aid of puppets and is excellent for teaching the evil results of greediness.

E-3 KNOW YOUR LIBRARY 11 MINS.
This film serves as an introduction to the use of the library. Some sequences cover the general organization of a library; the use of the card catalogue; arrangements of books on the shelves; and the use of the encyclopedia, the Reader's Guide, and the vertical file.

E-16 LADY OF THE LAKE (Colour) 11 MINS.
The film opens with a brief history of the life of the poet, Sir Walter Scott. It gives visual meaning to the poem by showing the actual scenes in Scotland which formed the setting for this beautiful legend.

E-75 LAKE DISTRICT, THE (Colour) 14 MINS.
The land that inspired poet William Wordsworth is shown with its green hills and blue lakes. Visitors get a glimpse of the people who still preserve their quaint dwellings and traditional ways of life.

E-41 LET'S PRONOUNCE WELL 11 MINS.
This film shows students how good pronunciation and enunciation can be achieved by such simple practices as being clear, being natural, and being accurate in word usage. The story concerns Tom who lacked good speech habits. The audience, aware of his failings, and aware of the methods he uses to correct himself, will be able to

apply what they see on the screen to their own pronunciation problems.

E-68 LET'S TRY CHORAL READING 11 MINS.
A unique Language Arts film for middle grades and high school, designed to help in choral reading activity.

E-107 LET'S WRITE A STORY (Colour) 11 MINS.
A direct incentive to creative writing for the very young child is provided. In the first of three sequences we watch the antics of a dog. The projector is turned off and the class describes the scene using imaginative words and phrases. A second provocative episode is the stimulus for writing vivid sentences, the third for writing a complete story.

E-31 LISTEN WELL, LEARN WELL 11 MINS.
Listening "like a sponge" — "a grasshopper" — "a turtle" — are ways children in this film characterize their own listening habits as they play listening games. They learn how to pick out important sounds, how to keep listening to sounds, and how visualizing sounds helps to understand them.

E-59 LITTLE BLACK LAMB 11 MINS.
This film tells a delightful story of Mary and her little lamb, a black one, and how it wins a place in Mary's heart.

E-42 LITTLE GRAY NECK 22 MINS.
The story of Little Gray Neck, a young Canada Goose, who, in trying to defend her friend Bunny Cottontail from the wicked fox suffers a broken wing and cannot fly south with her family when they migrate. Little Gray Neck's trials and tribulations, and the helpful friendliness of Bunny Cottontail and his friends in caring for Little Gray Neck and protecting her from the fox make a story which will arouse in primary children the same fine instincts that are portrayed in the lovable animal characters on the screen.

E-22 LITTLE RED HEN, THE (Colour) 11 MINS.
This is the traditional story dramatized by real animals — a hen, chicks, duck, cat, and pig. The complex parts of the story are fitted in by the use of animation and the sound track provides the dialogue.

E-30 LITTLE RED RIDING HOOD (Colour) 11 MINS.
The story is cleverly depicted by hand puppets. The film version develops in its essentials true to the familiar fairy tale, but with a modern setting. Charming puppets and a well-executed sound track carry the story through smoothly and convincingly.

E-17 LONGFELLOW 17 MINS.

Charmingly portrays salient and representative events in the life of Henry Wadsworth Longfellow — events which make secure his unique place in the world of literature. The film describes his early love of poetry and his full life as teacher, scholar, and poet. Selections from his poems are interposed and incidents depicted which inspired him to write several of his best known works.

E-36 MARK TWAIN AND TOM SAWYER 11 MINS.

This film gives interesting background concerning Samuel Clemens (Mark Twain) and his home in Hannibal, Missouri, the setting for the stories of Tom Sawyer and Huckleberry Finn.

E-49 MIDSUMMER NIGHT'S DREAM: INTRODUCTION TO THE PLAY (Colour) 14 MINS.

Key scenes from "A Midsummer Night's Dream" are staged. Familiar passages and significant actions are used to illustrate the setting and plot the play. Narrative exposition also clarifies the way in which the characters act, their relationships to one another, and the language they speak.

E-115 MILLER GRINDS WHEAT (Colour) 11 MINS.

We see briefly how wheat is harvested, then visit a mill which produces stone-ground flour and see the entire process of milling. The grain arrives by truck and is stored in a large tank; it is ground, sifted, put into sacks, and finally loaded for delivery to bakeries. A flow chart helps explain these steps.

E-69 MONKEY WHO WOULD BE KING, THE 11 MINS.

A simple fable of a monkey who accepts the crown of the animal kingdom and then has to suffer the consequences. Many animals are candidates for the retiring lion's crown. The monkey wins, but the fox resents it and plots vengeance. The monkey learns that the responsibility of the crown is heavy.

E-94 MORNING ON THE LIÉVRE (Colour) 14 MINS.

The scenic Liévre River, as it flows through the Laurentian hills in Northern Quebec, provides the inspiration for Archibald Lampman's poem. Two canoemen are seen travelling along the river through mist, sun and shadow to the accompaniment of the poem being read by poet George Whalley.

E-108 MUSICIANS IN THE WOODS (Colour) 15 MINS.

Animated puppets enact the Grimm fairy tale about the forsaken animals who set out to make their way in the world. The adventures in which the donkey, dog, cat, and rooster outwit a band of thieves and gain a fortune is told here in colourful and amusing fashion.

E-18 NEW ENGLAND, BACKGROUND OF LITERATURE (Colour) 11 MINS.
Here is New England as it is known through the writing of Bryant, Emerson, Longfellow, Whittier, Thoreau, Holmes, and Alcott. The works of these authors will take on new meaning as students see the scenes and sense the traditions and culture out of which they are built.

E-95 THE NOVEL: WHAT IT IS (Colour) 34 MINS.
Mr. Clifton Fadiman discusses the basic elements common to all novels: plot, character, setting, style, and form. Dramatic excerpts from many novels are presented by Mr. Fadiman to illustrate important concepts. Selections from "Moby Dick" and from the works of Charles Dickens are used to illustrate some of the special qualities which set good novels apart from those that are simply entertaining. Special emphasis is placed on the author's ability to create a world that is unique and complete, peopled with believable, living characters.

E-96 THE NOVEL: EARLY VICTORIAN ENGLAND AND CHARLES DICKENS (Colour) 34 MINS.
Mr. Fadiman examines in this film the civilization which Dickens reflected, attacked, and transcended — that of Victorian England. Numerous excerpts from Dickens' novels show, as only Dickens could, the startling contrasts of his age — its morality and hypocrisy, its respectability and criminality, its splendour and its squalor.

E-97 THE NOVEL: GREAT EXPECTATIONS—PART I (Colour) 34 MINS.
Carefully selected dramatic scenes used in this film establish the setting, characters, and shape of the novel and introduce some of the major themes which make up the novel's deeper content. Mr. Fadiman traces the main narrative threads which make up Dickens' masterpiece: the young Pip's introduction to Miss Havisham and Estella, his later introduction to the great life of London, and the promise of his great expectations.

E-98 THE NOVEL: GREAT EXPECTATIONS—PART II (Colour) 34 MINS.
In this film Mr. Fadiman probes more deeply into the meanings lying behind the story. He explains the development of parallel relationships between the major characters, Magwitch and Pip, Miss Havisham and Estella. He also interprets the dominant themes which are inter-related with character development. The main thread of the narrative is traced through several dramatic scenes. It becomes clear that in Pip's stumbling progress to self-understanding are mirrored much of the stupidity, hypocrisy, and also the virtues of the Victorian age itself.

E-23 ON STAGE 30 MINS.

Deals with the difficulties and problems faced by an amateur theatrical group, under the guidance of a teacher, in selecting a play, casting, rehearsing, preparing scenery, lighting. It is suggested that this film will be of value to teachers in secondary schools who are interested in the production of plays.

E-43 ONE RAINY DAY 11 MINS.

Children in a class listen intently to a story about a rainy day. They learn how a storm begins with winds, clouds, thunder and lightning—and what the rain does for soil, plants, cities and people. Suddenly, the storm stops and a rainbow appears. The children feel that this is a wonderful way to end a rainy day.

E-99 PARTS OF SPEECH (Colour) 13½ MINS.

A fun-filled afternoon at the beach with Sue, Fred, and their friends provides an opportunity to use the parts of speech in building the pictures we see. The film introduces the eight parts of speech and explains that they may name things, modify other words, connect words, or tell about actions.

E-116 PAULINE JOHNSON (Colour) 6 MINS.

This film shows some of the scenes from the early life of a great Canadian poet. Her interpretation of Indian life is revealed in dramatic readings from her poems. "The Song My Paddle Sings" is depicted in excellent colour photography.

E-60 PEOPLE OF THE REINDEER 18 MINS.

The Lapp country provides the setting for an adventurous boy. We see the importance of reindeer for food and clothing. The Lapps are shown in Sweden at their winter villages, and also in the cold mountains in the summer with their reindeer herds.

E-109 PLATO'S APOLOGY—THE LIFE AND TEACHINGS OF SOCRATES (Colour) 30 MINS.

Mortimer Adler, with the aid of dramatized excerpts from the Dialogues of Plato, expounds the philosophy of Socrates.

E-44 PLAYS, HOW TO READ 11 MINS.

The technique of reconstructing imaginatively the stage production of a play is stressed in this film. The reader is trained to grasp the full significance of the visual, aural, and dramatic content of a play from the bare outlines provided in a text.

E-89 PREPARING YOUR BOOK REPORT (Colour) 11 MINS.

With emphasis on the importance of preparation, this film illustrates the development and presentation of both written and oral book reports. By outlining his material and practising his oral report beforehand, Jim gives a report on "The Adventures of Tom Sawyer" which arouses the interest of his class.

E-70 PRICKLY THE PORCUPINE (Colour) 11 MINS.
Better than anything else in the world, Prickly liked to eat salt. His search for it, one bright morning, led him out of the woods and to a farm. Prickly's subsequent encounters with the farm children and their dog provide a basis for reading and storytelling and enable children to observe characteristics of this unusual animal.

E-76 PUSS IN BOOTS 14 MINS.
The well-known fairy tale is retold with animated puppets. Made by the German craftsmen, the Dietz Brothers, the puppets are truly artistic creations of romantic figures from the German folklore.

E-6 ROBINSON CRUSOE 30 MINS.
The story of Robinson Crusoe, that immortal character from the book by Daniel Defoe. The film was photographed on the actual island and shows the chief events, day by day, from the shipwreck to Crusoe's rescue.

E-32 RUMPELSTILTSKIN (Colour) 11 MINS.
The story of Rumpelstiltskin is told with puppets. This film provides a common experience, and excellent stimulation for English expression, dramatization and art. A moral at the end shows the evil that may befall one who loses his temper.

E-33 SAILING A TOY BOAT (Colour) 6 MINS.
Frank is thrilled over the bright new toy sailboat his father has given him. He learns how to set the rudder, so that his boat will come back to him when it sails far out on the pond. Jean's doll is the boat's passenger. When the waves wash her overboard, it is brave Penny who swims to Dolly's rescue and brings her safely back to Jean.

E-13 SCOTLAND, BACKGROUND OF LITERATURE (Colour) 11 MINS.
Scottish literary shrines, scenes of the highlands, the lowlands, and the once embattled borderland, as well as views of the cities, provide the basis for a pictorial pilgrimage to the land of Burns, Scott, Carlyle and Stevenson.

E-77 SEA, THE: BACKGROUND FOR LITERATURE (Colour) 11 MINS.
A young sailor's love of the sea provokes a study of literature revealing its many aspects. Visualized in the survey are dramatic excerpts from "The Rime of the Ancient Mariner", "Crossing the Bar", as well as re-enactments of key scenes from well-known literature.

E-71 SHAGGY, THE COYOTE (Colour) 11 MINS.
One wintry day, Shaggy, a year-old coyote, ventured near a farm to find a chicken. The farmer's watchdog chased Shaggy away, but

he returned, even hungrier, and was almost caught in a trap. Shaggy's exciting adventure will lend itself to retelling, and careful, close-up photography enables children to learn much about this interesting animal.

E-34 SHAKESPEARE, WILLIAM 22 MINS.
Background for His Works
In the England of today, this film shows the places of Shakespeare's times and the elements of English life that gave Shakespeare his language and shaped his character. Kenilworth Castle, Stratford, the River Avon, Anne Hathaway's Cottage, The George Inn, and the Tower of London, are shown as links of the past with the present. Brief episodes are presented from some of the most studied plays.

E-61 SHAKESPEARE, WILLIAM 25 MINS.
The course of William Shakespeare's life is traced from his boyhood in Stratford through his career in the London theatre as actor and dramatist. Excerpts are presented from Romeo and Juliet, Henry V, As You Like It, Julius Caesar, Hamlet and Macbeth as they would have been performed on the stage of Shakespeare's own theatre, the Globe.

E-117 SHEPHERD, THE 11 MINS.
Photographed on the grassy uplands of the British Columbia interior, this film captures in poetic mood the ageless theme of a shepherd caring for his flock. Each scene becomes a gently animated pastoral tableau as the camera explores the tranquil serenity of the shepherd's domain. Presented without spoken commentary, the only sounds heard are those of nature mingling with a soft musical background, and the barking of two sheep dogs as they race to do their master's bidding.

E-118 SHOEMAKER AND THE ELVES (Colour) 14 MINS.
The story of the elves who slip into his shop and make shoes for the shoemaker is retold with animated puppets. This charming film, based on a Grimm fairy tale, tells what happens when the shoemaker and his wife leave new clothes, food and sweets for the elves one night.

E-19 SPARKY, THE COLT 11 MINS.
This film provides an incentive to reading, discussion, and other activities. Children follow the adventures of Sparky, the wobbly little colt, as he grows strong, learns to canter across the fields, and becomes a beautiful horse.

E-8 SPELLING IS EASY 11 MINS.
This is a motivational film for the intermediate grades. It represents an experiment in the development of a practical visual aid to spelling. Five basic rules for learning to spell are presented.

E-20 SPOTTY, THE FAWN (Colour) 11 MINS.
Authentic photography shows the adventures of Spotty, a graceful young fawn, who wanders away from his mother and explores his surroundings. He meets a chipmunk, bluejay, skunk, and calf before he finds his way back to his mother in the forest. Primary teachers will find this film especially useful in motivating English and art.

E-86 SPOTTY, THE FAWN, IN WINTER (Colour) 11 MINS.
Summer has turned to autumn in the North Woods and, little by little, Spotty is changing and growing. One morning late in the fall, he awakens to find the entire forest covered with snow, creating a strange new world for him. Later, when the heavy snows come, the kindness and friendship of a little girl who puts out food for him help Spotty survive his first winter.

E-87 STAGECRAFT: SCENERY FRAME CONSTRUCTION (Colour) 11 MINS.
The frame — the basic unit of scenery construction — is taken up in this film. We follow its actual construction from the selection of the proper type of lumber, through the final stages prior to painting. The component parts of the frame are shown as they are used in the step-by-step construction.

E-45 STORY ACTING IS FUN 11 MINS.
Methods of acting out everyday experiences, poems, and stories are shown. Students see a boy demonstrate how he took a picture of a bird; a group act out "The Village Blacksmith"; signing of the Declaration of Independence, and Tom Sawyer painting the fence. This film should prove effective in developing language and social skills.

E-100 STORY OF A BOOK (Colour) 10 MINS.
This film follows a real life author, H. C. Holling, through the exciting and satisfying process of creating Pagoo, the story of a hermit crab. Highly visual sequences show the steps of this process: getting the idea, doing the research both in the library and by observation, writing and rewriting, illustrating, planning the dummy, and printing.

E-50 STRATFORD ADVENTURE, THE (Colour) 30 MINS.
The film tells how a small Canadian city bearing the name of Stratford undertook to produce the Shakespearean Festival. It includes scenes from All's Well that Ends Well and Richard III.

E-78 SUMMER IS AN ADVENTURE (Colour) 11 MINS.
Summer is a time for being outdoors — for fun at the beach, catching fireflies, and picnicking. It's a time for seeing colourful flowers, plants, birds, and insects, for walking in the woods, and for enjoying long, warm and bright days.

E-35 SURPRISE FOR JEAN (Colour) 6 MINS.

It is Jean's sixth birthday, and Mother has planned a big surprise. Jean and Frank are sent on an errand. While they are gone, Jean's little friends come to her house with birthday presents. Quickly they hide themselves, and when Jean and Frank return, the guests rush out and shout "Happy Birthday". The presents are opened, and the girls enjoy refreshments around a festive table.

E-62 TALE OF A GROUNDHOG'S SHADOW (Colour) 11 MINS.

The age-old legend of the groundhog and his shadow is told to children through a delightful adventure of a raccoon searching for news of coming spring. The badger, beaver, porcupine, and skunk can't aid the raccoon, but the groundhog helps him discover the first signs of spring.

E-63 TALE OF THE FIORDS 11 MINS.

Little Ragnhild yearns to find the legendary valley of dreams across the fiord. She slips away from her home, and on impulse kicks her milk bucket over the mountainside. With a new sense of freedom she explores the ravines. Later, however, she stumbles over her milk bucket and returns home to the many things she loves there. The original music score emphasizes the mood of the film.

E-51 THREE FOX FABLES 11 MINS.

Real animals dramatize the fables of the sour grapes, the foolishness of listening to flattery; and he who laughs last, laughs best.

E-64 THREE LITTLE PIGS (Colour) 11 MINS.

The well-loved children's classic, "The Three Little Pigs" is imaginatively retold. The elements of the original story — all of which are retained — are enhanced by the use of real animals.

E-101 THUMBELINA 11 MINS.

Delightful graphics present the fairy tale in a very pleasing manner. A tiny girl called "Thumbelina" was born from a beautiful flower. A large wet toad wanted to marry her to his son; rich old Mr. Mole also proposed. Thumbelina is eventually saved by a swallow and taken to Greece where she finds happiness.

E-72 TWO LITTLE RACCOONS 11 MINS.

The amusing adventures of Randy and Wilbur, two busy young raccoons, are shown in this story of all they see and do on a day away from home in the woods and at the nearby farm.

E-46 UGLY DUCKLING (Colour) 11 MINS.

The famous Hans Christian Andersen story is retold in authentic, charming style. Filmed in Europe, the fable takes on added richness and beauty from its settings as we follow the misfortunes of the unwanted duckling who finally grows into a beautiful swan.

E-110 WALKER IN THE SNOW (Colour) 7 MINS.
An old legend is depicted by C. W. Shanty in his poem "Walker in the Snow". Canadian winter scenes provide the setting.

E-10 WE DISCOVER THE DICTIONARY 11 MINS.
Important points regarding dictionary usage are developed in an interesting and natural way by means of a simple story concerning three students who are assigned the task of writing a letter to a police sergeant thanking him for assisting the class in their safety week campaign. By the time the letter is finished, they learn a great deal about dictionaries, including the use of the guide words, finding the spelling of words, definitions, reading diacritical marks, and the many kinds of dictionaries.

E-52 WE DISCOVER THE LIBRARY 11 MINS.
This film shows how children may make use of the facilities of a public library; the different types of libraries; and the services they render.

E-37 WHY PUNCTUATE? 11 MINS.
Designed to motivate and review the study of punctuation, this film stresses the importance of good punctuation in our everyday business and social life. It summarizes the basic rules for use of the most important punctuation marks.

E-65 WINTER IS AN ADVENTURE (Colour) 11 MINS.
Snow frosting all the out-of-doors, close views of winter animals, and the joy of a city boy exploring a farm all add to the enchantment of winter. We follow Scotty as he discovers the changes in nature, and we observe with him the adaptations of animals to the snow and cold of winter.

E-102 WOODY WOODCHUCK'S ADVENTURE (Colour) 11 MINS.
The film begins in late winter as Father Woodchuck comes out of his burrow to survey the weather. Father Woodchuck makes sure there are no enemies about before bringing his family from the den. Soon the hungry woodchucks are feasting on tender grass, leaves, and roots. Woody, one of the little chucks, wanders away and is captured by a boy named Michael and his dog, Blackie. Michael wants to keep the little chuck for a pet, but Woody escapes and returns to his forest home. In early fall Woody digs the burrow that will be his winter home.

E-73 WOOLLY, THE LAMB (Colour) 11 MINS.
On a very special day, the first autumn lamb is born. In a fanciful story, the lonely little lamb leaves his valley to search for a playmate. He finds none among the cows, pigs, turkeys, and dog that live on the farm, but returning home to the valley, discovers just the playmate he has been looking for, a new baby lamb.

E-88 WORD BUILDING IN OUR LANGUAGE (Colour) 11 MINS.

Through interesting examples, graphically illustrated, the film demonstrates how many of our words are built by adding prefixes, suffixes, or both to a root, and by combining words or parts of them. It also points out that many of our words are derived from other languages — frequently Latin — and generally explores the principles of structural growth of words.

E-24 WORDSWORTH COUNTRY 14 MINS.

This film offers appealing background photography of scenes from the poet's life in the Lake district of northern England.

E-111 WRITING A REPORT (Colour) 11 MINS.

As Ted writes a report on his subject, "the news", pupils will follow him through the four steps: choosing a subject, gathering information, organizing the information, and writing the report. The film stresses the importance of knowing where to find sources of information, taking notes, outlining, organizing facts, and careful preparation for writing a good report.

E-112 YOU AND YOUR LIBRARY (Colour) 11 MINS.

Objectives of this film are to explain library facilities and their uses, as well as to encourage people to use them. High school students are observed as they work on research projects using card catalogue, reference section, and Dewey-Decimal System to locate various types of material available in the library.

E-38 ZOO ANIMALS OF OUR STORYBOOKS (Colour) 11 MINS.

This is a fascinating film treatment which shows our zoo animals in action, at close and long range. Storybook animals, such as bears, elephants, lions, tigers and giraffes, become more meaningful and more vivid to children after this lively trip to the zoo.

Guidance

G-1 AGRICULTURE 11 MINS.

This film explains the various types of agriculture and how many farmers diversify their operations. It tells of some of the jobs a farmer must know such as care of farm equipment and animals, preparation of the land including contour farming, and protection against soil erosion. Working conditions in all kinds of weather and a frank discussion of qualifications for the modern farmer are outlined.

G-91 ALLEN IS MY BROTHER (Colour) 11 MINS.

Karen, aged seven, doesn't want to take care of her small brother, Allen, even after Mother asks her to help. When Karen ignores

Allen, he gets into mischief and she realizes that she has not done her job. Gradually they begin to play together and she finds that helping can be fun.

G-80 APPOINTMENT WITH YOUTH 26 MINS.
In this film, a teacher recalls his life and experiences during the time he has been in the profession. He analyzes the academic requirements of the good teacher, his place in the community, his personal satisfaction in successfully dealing with problem pupils, and his economic situation. He decides it is a good and fruitful way of life and recommends the profession to young people who may be graduating from high school or college.

G-2 APTITUDES AND OCCUPATIONS 22 MINS.
This film gives students an over-all view of the problems of guidance, and stresses the importance of considering individual aptitudes in choosing a life work. Six fundamental aptitudes — mechanical, clerical, social, musical, artistic and scholastic — are analyzed and illustrated.

G-38 ARE YOU POPULAR? 11 MINS.
Carolyn and Wally, hero and heroine, are welcome in any group because they are friendly, considerate, and interested in other people. Here, re-enacting with their high school friends those all-important social successes and failures, they present a vital guide to boy and girl relationships and popularity.

G-3 AUTOMOTIVE SERVICE 11 MINS.
The film points out the opportunities today in the automotive field. It stresses the necessity for training and shows the many branches in automotive service from which a student may choose a vocation. Information regarding the various courses in schools, night classes and by correspondence by which a boy can receive training, is given.

G-103 BEGINNING RESPONSIBILITY: DOING THINGS FOR OURSELVES IN SCHOOL (Colour) 11 MINS.
From the time Steve dresses himself in the morning, through his activities at school, we discover how he learns to do things for himself — by watching others, by profiting from his mistakes, by asking for help, and by practice. By stressing the satisfactions of self-reliance and the fun of learning, this film should motivate pupils to follow Steve's example.

G-67 BEGINNING TO DATE 11 MINS.
Dramatizes an important period in the lives of young teen-agers, with effective illustration of right and wrong approaches to dating. Offers special help to the timid student, whose shyness creates a barrier to dating — and demonstrates basic rules for conduct on a date.

G-85 BEING ON TIME 11 MINS.
Jimmy, who misses out on things because he is not on time, observes firemen and train engineers and realizes how important it is to be prompt. He learns that he can help himself by getting ready in advance and by estimating how long it takes to get things done.

G-49 BENEFITS OF LOOKING AHEAD 11 MINS.
An understanding of the importance of thinking seriously about the future and doing something about it is developed by this film. By encouraging students to look ahead to the kind of life they will want, the film helps them to think constructively about immediate problems and work toward achieving that life.

G-68 BETTER USE OF LEISURE TIME 11 MINS.
Many leisure time activities both interesting and educational are open to young people. This film serves as a helpful guide in developing a constructive attitude about leisure time. It shows how time can be used constructively through a self-planned programme of leisure time activities.

G-4 BOOKKEEPING AND ACCOUNTING 11 MINS.
This film indicates the special aptitudes required for success in bookkeeping and accounting.

G-6 BRICK AND STONE MASON 11 MINS.
Describes the variety of jobs requiring a mason's services, as well as the materials with which he works. Steps in learning the trade are outlined, with a good summary of the essential qualifications for success in the trade.

G-95 CAREERS IN AGRICULTURE (Colour) 14 MINS.
Richard, planning his future, explores with his high school agriculture teacher the many careers in agriculture. He learns of career opportunities in the areas of crop and livestock farming; agricultural research, industry, conservation, and services; and agricultural communication and education.

G-86 CAREERS IN THE BUILDING TRADES 11 MINS.
At a summer job on a construction site, Bob observes the carpenter, plumber, bricklayer, electrician, painter, plasterer, and glazier at work. He discovers that his interests and aptitudes fit him for a vocation in the building trades and, when he returns to school, finds that each of his subjects will contribute to this future work.

G-96 CHARTERED ACCOUNTANT IN CANADA 16 MINS.
The role of the chartered accountant in Canada's economy is shown in this film. Through the typical work of one individual, the training of staff in audit work, inventory, check on stocks and

bonds, and preparation of reports for clients are clearly portrayed. This film is an excellent picture of the role played by the chartered accountants in modern living.

G-51 CHEATING 11 MINS.
A typical student becomes so active in school activities that he comes to depend on a classmate for help. When caught cheating during a test, both are punished. The film is planned to stimulate a discussion of a problem common to all student groups.

G-39 COUNSELLING: ITS TOOLS AND TECHNIQUES 22 MINS.
With an expertly prepared script, the film shows a well-trained guidance counsellor at work. It covers his most important tools — interviews, tests, questionnaires, visual aids, and the techniques he uses to obtain maximum benefit from them.

G-52 COUNTRY MAGISTRATE 22 MINS.
This is the informative and dramatic story of a country magistrate in British Columbia. It gives a good insight into the duties of such an official, and the important part he plays in the life of the community.

G-53 COURTESY FOR BEGINNERS 11 MINS.
The fundamentals of courtesy — such as being considerate to a guest, making correct introductions, saying "please", "thank you", and "excuse me" — are presented in a variety of role-playing activities.

G-81 COURTESY, WORDS OF 11 MINS.
The why and the when of using the common words of courtesy are dramatized. An attitude of thinking of others is emphasized as being the root of all courtesy.

G-7 DAIRY INDUSTRY 11 MINS.
This film portrays the nature of the work in connection with a dairy farm and in the dairy industry.

G-54 DATE ETIQUETTE 11 MINS.
The tactful handling of everyday situations in dating is demonstrated — asking for a date, acceptance, calling for the girl, etc. Encourages young people to use good date etiquette and in turn gain poise and a greater sense of self-confidence.

G-55 DECISIONS, MAKING YOUR OWN 11 MINS.
Making decisions is a skill that everyone should learn as a prerequisite to more mature and successful living. This film presents a series of five questions that illustrate the alternatives that exist in every situation and shows how each contributes to the making of a self-reliant, mature individual.

G-8 DENTISTRY, A CAREER 22 MINS.

This film presents in story form an account of dentistry as a career. It deals with the opportunities it offers and the personal and educational requirements necessary. The story then follows a dental student through his course, illustrating the studies and practice required. It concludes with a presentation of dental work, X-ray and special branches of dentistry.

G-47 DEVELOPING RESPONSIBILITY 11 MINS.

This appealing story of a boy, and of the dog that he wants very badly, teaches lessons in responsibility that students will understand and remember. They will realize that although responsibilities often entail hard work, difficult decisions, and missing out on some fun, the rewards, both material and spiritual, more than compensate. Through planning and determination a fuller, happier life will be theirs.

G-69 DO BETTER ON YOUR EXAMINATIONS 11 MINS.

Four basic rules that students can follow to do better on their examinations are presented in this film. These rules are demonstrated, as are the various types of examinations. Students learn how to cultivate a positive attitude towards tests by understanding the purposes, objectives and values of examinations.

G-9 DRAUGHTSMAN, THE 11 MINS.

This film deals with requirements for draughting, and some aspects of architectural, mechanical and other fields of draughting. Emphasis is placed on knowledge and ability in physics and other science subjects as well as drawing.

G-11 ENGINEERING 11 MINS.

The various fields in engineering are discussed, namely: civil, mining, metallurgical, chemical, mechanical and electrical. A student who does not like mathematics, physics, chemistry and related sciences is advised not to plan to be an engineer.

G-40 EVERYDAY COURTESY 11 MINS.

This film enables students to see and hear courtesy in action. They will learn that supposed formalities really add up to the friendliness and thought for others which make each person's life more enjoyable.

G-41 FAMILY LIFE 11 MINS.

This film presents the story of a family whose home life is unhappy because of selfishness, thoughtlessness, and lack of a system for living together. Father, mother, teen-aged son and daughter hold family councils and evolve a plan which results in a well-managed, happy home.

G-70 FARMER, THE (Colour) 15 MINS.
This film depicts a typical day's activities on a large farm at harvest time, as seen through the eyes of a young teen-age lad.

G-56 FEELING LEFT OUT 16 MINS.
This film is aimed at developing sympathy and understanding for the socially isolated. Recognizing the natural desire of every student to "belong" to his group, and his necessity for a feeling of importance, the film points out the many opportunities for friendships and how to overcome the feeling of being "left out".

G-102 FINDING INFORMATION (Colour) 11 MINS.
The discovery of a baby bird provides motivation for a young boy to obtain information on caring for a pet. Books, a pet store, his teachers and parents are consulted.

G-42 FINDING THE RIGHT JOB 11 MINS.
This film demonstrates the steps that may be taken to find the right job in a field of work selected by the applicant. A thorough presentation of job-lead sources is given, and the story establishes a process of weighing offers in terms of future goals. Errors and correct procedure in applying for jobs are pointed out.

G-12 FINDING YOUR LIFE'S WORK 22 MINS.
This film aims at assisting a student in choosing an occupation suitable to his aptitudes and interests. Health, character, education, abilities, ambition and other personal factors affecting the choice of one's life work are discussed.

G-13 FOREST AND FOREST INDUSTRY 11 MINS.
Stresses the type of work done in the forest industries. The necessary training and skills required are illustrated.

G-71 GOOD LOSER, THE 15 MINS.
A boy who is accustomed to winning finds himself in the role of the loser. In this unfamiliar situation, he has difficulty in accepting his defeat gracefully. This film should prove useful in stimulating a discussion of personal attitudes towards winning and losing.

G-14 HEATING AND VENTILATION 11 MINS.
This guidance film outlines various jobs in heating and air-conditioning. It describes the training required, and attempts to estimate the future prospects in the industry.

G-92 HELPING JOHNNY REMEMBER (Colour) 11 MINS.
Motivating courtesy and consideration for others is demonstrated by dramatizing the problems of a boy rejected by other children because he is selfish, unco-operative and domineering. The group accepts Johnny back when he shows a real desire to be considerate, and makes a determined effort to develop courteous habits by constant practice, aided by the group until he gets a good start.

G-93 HIGH SCHOOL PROM (Colour) 16 MINS.

Four students illustrate the steps in making preparations for a high school prom. They show us proper etiquette while attending, and the accepted procedures following a formal social function. Asking for a date, making introductions, behaving creditably, dining out — these and other facets of the exciting event are covered.

G-57 HIGH SCHOOL—YOUR CHALLENGE 14 MINS.

By looking back at the high school career of a graduating senior, this film emphasizes the future importance of a good high school education and the advantages of taking part in extra-curricular activities. It is designed to help handle the drop-out problem and to make high school more meaningful for all.

G-15 HOME ELECTRICAL APPLIANCES 11 MINS.

This film illustrates the principles of operation and the maintenance of home electrical appliances.

G-72 HOMEWORK 11 MINS.

Two boys and a girl of high school age tell of their homework problems and how they solved them. This film shows three areas in which homework skills are necessary; finding a place and time to study, arranging projects according to materials needed for study, and developing the habit of studying "on your own". The significance of homework as a forerunner to success in college, business, and adult life is portrayed.

G-58 HONEST TRUTH, THE 6 MINS.

We listen in on the conversation of high school teen-agers following a school play in which a popular but untalented student has had the leading role. The editor of the school paper defends his right to print an objective critical review of her performance. Other students feel that she should be let down more gently. The audience is invited to take over discussion of the issue.

G-48 HOW TO KEEP A JOB 11 MINS.

Job success is dependent on more than a wise selection of vocation, more than the right attitude to work itself, more than the selection of a particular position. Although these are important, job success means getting along with workers, conduct of work, attitude toward the company, and other factors which this film explains in story form.

G-87 HOW TO TAKE A TEST 11 MINS.

Explains how to prepare for and take tests in school, to encourage students to follow a recommended procedure that will insure that the test is a true measure of their knowledge and ability.

G-104 IMPROVING YOUR STUDY HABITS (Colour) 14 MINS.
An over-all view of the various skills comprising effective study techniques is presented. The student is directed to the importance of careful listening and reading, accurate comprehension, and note-taking. The processes of getting information, preparing written reports and preparation for examinations are demonstrated. A diagnosis of a student's study habits reveals various ways of improving his work.

G-17 I WANT TO BE A SECRETARY (Colour) 16 MINS.
A film which shows a commercial-school girl investigating the possibilities in a variety of stenographic jobs from purely clerical to secretarial level. The chief value of the film is in techniques of counselling and in job investigation rather than in direct information about stenographic work. It would be valuable to students interested in commercial work, to commercial teachers and to teacher-counsellors.

G-18 JOURNALISM 11 MINS.
A presentation of the work of a newspaper reporter in various specialized capacities and a discussion of the personal qualifications, mental and physical, which are required for successful handling of journalism.

G-88 KINDNESS TO OTHERS 11 MINS.
What is kindness? How can we be kind to others? These are things Sam's class begins to learn on the very day he becomes ill and is absent from school. Everyone in the class remembers Sam's kindness — to his family, playmates, and animals. In discovering a special way to be kind to him, Sam's classmates find the pleasures that come from practising kindness.

G-19 LAUNDRY AND DRY CLEANING 11 MINS.
This film takes us on a trip through a laundry and dry-cleaning plant. We see the many types of jobs in this vocation, both skilled and unskilled. Students learning machine operation, studying textiles, laundry, chemistry, salesmanship, accounting and management are depicted. Many of the specialized jobs such as the spotter, dyer, foreman and manager are presented and explained. Subjects and qualifications required to specialize in, or to own one, of these businesses are well presented.

G-74 LEARNING TO STUDY 14 MINS.
This film deals in a dramatic style with one of the fundamental problems of education. Various steps in learning to study effectively are illustrated.

G-20 LIBRARIAN, THE 11 MINS.
Indicates the variety of services performed by a trained librarian. Sequences show the training skills required, steps in learning the various responsibilities, and the advantages of specialization.

G-43 LIFE INSURANCE OCCUPATIONS 11 MINS.
The fundamental types of occupations in life insurance are presented objectively. Various opportunities for advancement and promotion are illustrated. Proper emphasis is placed upon the skills and training necessary for success in this field.

G-21 MACHINIST AND TOOL MAKER 11 MINS.
The five divisions of this film are: (1) film introduction, (2) five ways of machining metal, (3) blueprint reading and measuring instruments, (4) jobs in the machinist trade, and (5) how to become a tool and die maker.

G-59 MAJORITY VOTE, THE 6 MINS.
A situation is presented in which a class of high school students voice their disapproval of the support given by their student council representative to a measure curtailing their extra-curricular activities. In defending her action, the representative gives adequate reasons for her support of the measure. The members of the audience are invited to express their opinions.

G-75 MAKING FRIENDS (Colour) 11 MINS.
This film is designed to stimulate thought concerning one of the most important aspects of life — making and keeping friends. The value of friendships in everyday experience, and various types of friends are illustrated. Three students are shown as they attempt to solve their problems. The film points out definite qualities of friendship and ways of making friends.

G-44 MAKING THE MOST OF SCHOOL 11 MINS.
This film opens students' eyes to the infinite riches which school offers them beyond their day-to-day assignments. Students will learn that merely "getting by" is not nearly as interesting as participating in class discussions, investigating opportunities for additional learning, and taking an active interest in sports and clubs.

G-97 MANNERS IN PUBLIC 11 MINS.
Barbara learns about good manners in public — on the sidewalk, on the bus, in the theatre, in the store and in the elevator.

G-76 MIND YOUR MANNERS 11 MINS.
A high school boy and his sister discover the correct way to act when with friends, when meeting new friends, when at home, at school or on a date. Consideration toward parents, teachers, and other adults, as well as proper courtesy when driving an automobile, riding on a bus, or walking on the sidewalk, are presented.

G-105 NATION BUILDERS (Colour) 25 MINS.
A cross-section of the various types of professional occupations related to the exploration and operation of mineral, oil and gas industries is presented. The film illustrates the educational background, apprenticeship in field work, and finally the type of life available to qualified professional personnel.

G-23 NURSING 11 MINS.
Qualifications, duties and opportunities in private nursing, public health nursing and institutional nursing are explained in this film.

G-82 OCCUPATION, CHOOSING YOUR 11 MINS.
Self-appraisal, occupational possibilities, preparation requirements, and guidance facilities are presented.

G-60 ONE MAN'S OPINION 6 MINS.
This film shows how one person's judgment might reasonably run counter to the majority. This is illustrated in a high school classroom where a campaign to raise funds for a school project is under way. One student, although believing in the cause, withholds his support because he disapproves of the high pressure methods used.

G-89 OTHER PEOPLE'S PROPERTY 11 MINS.
A dramatic situation is designed to stimulate discussion of the problem of respect for property and the moral responsibility for protecting public property.

G-90 OTHER PEOPLE'S THINGS 11 MINS.
Broken playground swings lead a primary-grade classroom into activities that illustrate the way in which public and private property, as well as articles that are borrowed or found, should be cared for. Mary Jane's pictures reflect situations common to many children's experience and, through this attitude-building film, pupils become aware of the need for respecting the property of others.

G-25 PAINTING AND DECORATING 11 MINS.
A film useful in acquainting students with the tools and materials used in this trade. It points out the occupational hazards, and indicates the advantages of specialization.

G-61 PERSONAL QUALITIES FOR JOB SUCCESS 11 MINS.
Young people will see high school graduates applying for jobs and will learn the importance of initiative, personal appearance, work habits, willingness to take criticism, and ability to get along with others.

G-26 PHARMACIST, THE 11 MINS.
This film depicts the work of the professional pharmacist. The requirements of the profession are detailed.

G-27 PHOTOGRAPHY 11 MINS.

The various phases of photography as a vocation are illustrated. A complete picture outlining the training and skills necessary for success in photography.

G-28 PLUMBING 11 MINS.

Outlines the qualifications essential in the training of a plumber. Shows the common jobs and basic skills required.

G-29 POULTRY RAISING 11 MINS.

Poultry raising as an industry is comparatively new. This film explains the difference between raising chickens as a sideline and as a business. Brooder and battery operations are shown. Modern poultry raising equipment is portrayed. The qualifications and education necessary for one who plans to enter this work along with problems of this particular vocation are presented.

G-62 PROCRASTINATOR, THE 11 MINS.

Teen-age procrastination is dramatized for purposes of stimulating group discussion. A popular girl acting as social chairman for her high school class almost ruins the class party through her thoughtlessness.

G-30 RADIO AND TELEVISION 11 MINS.

The development of radio is sketched and the opportunities for a student in radio work are pointed out. The applications of radio principles in public address systems, movies, wirephoto and television are illustrated along with a description of the operation of some of these applications. The need for education, training and aptitude is emphasized.

G-63 RESPONSIBILITY, BEGINNING— 11 MINS.
Taking Care of Things

This film explains how and why children should care for things at home and at school. The importance of having definite places to keep things, of putting articles back where they belong, and of storing and handling things properly to prevent accidents and damage, is stressed.

G-31 RESTAURANT OPERATOR 11 MINS.

The four fundamental types of restaurants are here presented and discussed. Jobs shown range from the owner-operator, hostess, food buyers, personnel directors to chefs and waitresses. The responsibilities and failure of an unqualified person in the restaurant business are depicted. The film closes showing young people in training for many of the jobs available in this business.

G-64 SCHOOL ACTIVITIES AND YOU 11 MINS.

A high school girl is planning her school activity programme.

Through the advice of her older brother, she learns the importance of choosing activities for their values by considering what she can learn, what her interests are, how much time she can give, and how to arrange a well-balanced programme.

G-77 SELLING AS A CAREER 11 MINS.

The general principles and techniques of salesmanship are presented in this film. The importance of the salesman in the business world is shown. The film leads to an understanding of some aspects of a selling career, and encourages students to consider this vocation.

G-32 SHEET METAL WORKER 11 MINS.

This film outlines the importance of sheet metal in the manufacture of numerous articles and points out the opportunities for employment in this field of work.

G-45 SHY GUY 14 MINS.

This is a motivational film designed to treat the problem of shyness as it affects the adolescent. The subject, a high school boy, lonely and diffident in his new school, is started on the road to friendly association through practising some of the principles he observes among students who are well adjusted.

G-65 SHYNESS 22 MINS.

This film is a study of abnormal shyness in children; Jimmy, whose excessive timidity is really a symptom of profound emotional disturbance; Robert, aloof but happily independent; and Anna, shy but wistfully wanting association with others. A psychiatrist from the Child Guidance Clinic studies their conditions, and desired changes in attitude are effected through the co-operation of teacher, parents, and the psychiatrist.

G-33 TEACHING 11 MINS.

The advantages of the teaching profession are illustrated. Requirements for the profession are shown. Samples of classroom teaching situations as found in many present-day schools are depicted.

G-34 TELEPHONE AND TELEGRAPH 11 MINS.

The many jobs possible in these vocations are shown. The skills and training necessary for success are reviewed.

G-35 TRANSPORTATION 11 MINS.

This film depicts the bus, truck and taxi methods of transportation. Qualifications for success in these occupational fields are outlined.

G-98 TROUBLEMAKER, THE 12 MINS.

The dramatic story of a boy who turns troublemaker as a means of satisfying his own needs. Designed to show the interaction between the troublemaker and his peer group and to stimulate class discussion of what makes him behave that way.

G-66 VOCATIONS, HOW TO INVESTIGATE 11 MINS.
Guidance tests are interpreted as applied to various vocations. The film raises questions related to a specific job, and shows how to gain actual job experience.

G-36 WELDING OPERATOR 11 MINS.
Gas welding and electric welding are described. It is predicted that the rapid development in welding will create great opportunities for employment.

G-99 WHAT ABOUT PREJUDICE 11 MINS.
This film examines the damage done by a group to a classmate because of prejudice (largely directed against parental origin), and shows the individual's emotional reactions when the "truth" is learned.

G-100 WHAT ABOUT SCHOOL SPIRIT 14 MINS.
Designed to suggest that school spirit, rather than the immature concept of the frenzied sports rally, is a form of citizenship requiring the assumption of responsibilities, both curricular and extra-curricular.

G-106 WHEN I'M OLD ENOUGH—GOODBYE 29 MINS.
This film deals with the drop-out problem. A student waits impatiently for his sixteenth birthday so that he can get a full-time job, pay cheque and car. His experiences, and attendant disillusionment, serve as a deterrent to other students when they see the limitations imposed in the labour market on people without adequate education.

G-37 WOODWORKER, THE 11 MINS.
The film shows the erecting of a house and the part played by the woodworkers. Furniture, mill work and pattern making are illustrated. How mechanical drawing, mathematics and science will help the student in preparing himself to become a woodworker is explained.

G-46 YOU AND YOUR WORK 11 MINS.
This is the story of a young man's failure in a good job and of his ultimate rehabilitation and success, achieved through personal adjustment and the right attitude to his work. This absorbing, real-life lesson will be a valuable addition to any vocational guidance programme.

G-101 YOU CAN GO A LONG WAY! 21 MINS.
This film explores the advantages of finishing high school and getting as much additional training and education as possible before looking for a job. It points out the increased competition for jobs, changes in methods, and technological advances which demand higher educational standards and shows how an extra year or two in school may mean a lifetime of better living and better security.

G-84 YOUR TABLE MANNERS 11 MINS.
A boy and girl plan a surprise for their father at the evening meal by remembering all their table manners. The film discusses basic table manners and inspires greater attention to these manners at every meal.

Health and Safety

H-94 ABOUT THE HUMAN BODY (Colour) 16 MINS.
A boy's visit to a doctor's office for a physical examination is the occasion for a discussion of the more important body systems. Using animation, the film explores the function and uses of bones, ligaments and muscles. It shows the working of the nervous, respiratory, digestive and circulatory systems. Useful in health instruction as well as science.

H-40 ALCOHOL AND THE HUMAN BODY 14 MINS.
Live photography and animation are used to show the specific effects of ethyl alcohol on the body. The film describes the characteristics of the liquor, traces its course through the body, and shows its effect upon the brain and actions of the imbiber.

H-72 ALEXANDER LEARNS GOOD HEALTH (Colour) 11 MINS.
The night before the big ball game, Alexander eats too much and sleeps too little. Unable to play with his team the next day, he improves his habits — proper diet, rest, cleanliness, exercise — and later pitches a winning game.

H-41 APPRECIATING OUR PARENTS 11 MINS.
In a simple story, this film tells how a boy discovered how much his parents do for him each day. He sees, too, how he can repay them by doing his share of the family work. Lessons of co-operation, ways to share tasks, and the importance of the family are presented.

H-42 ATOMIC ALERT 22 MINS.
This film, made especially for schools, illustrates calmly the basic methods by which each child can best protect himself from injury and possible death. Opening with simplified explanations of radioactivity and nuclear fission, the film describes diagrammatically the effects of an atomic bomb explosion and demonstrates protective measures to be taken in the home, on the street, or at school.

H-61 BACTERIA: FRIEND AND FOE (Colour) 11 MINS.
The film opens by describing some of the thousands of known bacteria and telling where they may be found. The importance, classification, and reproduction of bacteria are illustrated, as well as the contribution of outstanding scientists like Paul de Kruif in the development of bacteriology.

H-108 BE WATER WISE (Colour) 14 MINS.

Presented in terms readily understandable to everyone, the film deals with the A-B-C's of swimming and water rescue, points out the importance of keeping a cool head at all times and the necessity of learning first things first. It was filmed at a summer camp and includes practical demonstrations of safety through care, training and common sense.

H-43 BICYCLE SAFETY 11 MINS.

Boy and girl cyclists illustrate the important points of safe riding: keeping the bicycle in safe condition, knowing and obeying the traffic laws, hand signals, and safety tips.

H-1 BLOOD 11 MINS.

Shows the nature and function of blood and its constituents, i.e., red and white corpuscles and plasma.

H-109 BOATING AND GOOD SENSE (Colour) 14 MINS.

Pointing out some of the common dangers in boating, the film covers boating training, and demonstrates safety in water skiing. It stresses the importance of having the proper size motor and proper equipment in the craft — such as life saving equipment, first aid kit, fire extinguisher, navigation lights, tool kit and flashlight. The emphasis is on care, common sense and courtesy.

H-2 BODY DEFENCES AGAINST DISEASE 11 MINS.

This film demonstrates the body's defences against infection — the skin, the circulatory system, the liver and spleen. Normal, infected and ruptured appendices are depicted. Microphotography is used to show the action of cells in attacking bacteria. The reaction of serums containing antibodies to typhoid and cholera bacteria is revealed.

H-3 BODY TEMPERATURE, CONTROL OF 11 MINS.

By means of laboratory demonstrations, animated drawings, and special photography, phenomena associated with variations of body temperature in animals and man are shown. Foods are designated as the source of body heat, and the roles of nerves, glands, and muscles in its control are portrayed. The blood stream is depicted as the distributor of heat, and the function of the hypothalamus is compared to that of a thermostat.

H-35 COMMON COLD 11 MINS.

The film illustrates the facts known about the common cold, its care, and secondary infections that may grow out of it. It tells the story of a boy who contracts a cold and visits his doctor for treatment and advice. It reveals, by means of the doctor's illustrated explanation, why the common cold is serious and how it should be treated.

H-4 DEFENDING THE CITY'S HEALTH 11 MINS.

Factors which affect health in cities are dealt with in this film. It shows the work of a city health department in promoting better health conditions and in preventing the spread of communicable diseases. The responsibility of the individual is emphasized.

H-5 DIGESTION OF FOODS 11 MINS.

This film shows the function and operation of the digestive organs and demonstrates the chemical action of digestive juices on the food. Microphotography and animated drawings are used to make explanations clear.

H-104 DISCOVERY OF INSULIN 18 MINS.

The film re-enacts the critical year in Dr. Banting's life during which he made the important discovery of insulin. It dramatizes the odds against which he and Charles Best worked, and the final victory which gave new hope of life and health to many people.

H-88 DRESS FOR HEALTH (Colour) 11 MINS.

Polly and Peter are twins who look alike and dress alike. We see how their woollen clothing helps them keep warm in winter and how their cotton clothing helps them keep cool in summer. With them, primary grade children will learn how to select clothing according to the weather, and how the thermometer and daily weather reports help them know what clothing will be comfortable.

H-50 DRIVER EDUCATION 30 MINS.

Your Permit to Drive
Driving Economically
Practice Makes Perfect Drivers

The general areas of instruction covered include driver qualifications, functioning and care of the automobile, basic driving techniques and advanced driving skills. The film is designed for classroom use in driver education. It is planned and produced by General Motors with the counsel of the National Commission on Safety Education of the National Education Association.

H-80 EARS AND HEARING, THE 11 MINS.

The physiology of the human ear is described by means of graphic animated drawings and remarkable close-up photography of the ear as it is functioning. The film portrays accurately how the parts of the ear operate, explains causes of impaired hearing, and demonstrates hearing aid use.

H-68 EARS, NOSE AND THROAT 11 MINS.

This film deals with the functions of the nose, throat and ears; and how they work together.

H-69 EAT FOR HEALTH (Colour) 11 MINS.
This film introduces a new approach in teaching children to eat a well-balanced diet. Using the five fingers of the hand as a check-off device, the food groups are identified with the fingers. A child learns to eat a balanced diet.

H-30 ELIMINATION 11 MINS.
This film describes the elimination of waste and surplus substances from the human body. It represents a study of the structure and functions of the four routes through which waste materials are eliminated.

H-81 EXERCISE FOR HAPPY LIVING 11 MINS.
The role of exercise in building a strong body and a healthy, happy personality is dramatized. The sequences depict a boy's keen disappointment at being only a substitute on the neighbourhood ball team and his negative attitude toward exercise. By means of a dream sequence in animation the healthy effects of exercise are shown.

H-8 EYES AND THEIR CARE 11 MINS.
Information about the structure and care of the eyes is presented in this film. The three main sequences are: (1) learning to use the eyes, (2) light and vision and (3) hygiene of the eyes.

H-10 EYES, YOUR 11 MINS.
The structure and function of the eye and its component parts are illustrated. Diagrams explain certain of the causes and correction of nearsightedness and farsightedness. The film explains how the eyeball is protected by the eyebrow, eyelash, eyelid and tears.

H-82 FIRE SAFETY IS YOUR PROBLEM 11 MINS.
Made especially for young students, this film discusses the common fire hazards found in and around the home, deals with the precautions for handling matches, dangers of accumulated rubbish and oily rags, rules for open fires, and shows the student what to do when fire does occur in the home.

H-51 FIRST AID ON THE SPOT 11 MINS.
The film features six common types of injuries and the approved first-aid techniques. It demonstrates the methods of caring for wounds, burns, and shock; of splinting; of controlling bleeding; and of administering artificial respiration.

H-62 FOOD FOR FREDDY (Colour) 22 MINS.
The kinds of food essential to the good health of school-age children are described. The film visualizes the basic requirements of a balanced diet as outlined in Canada's Food Rules. The relation between food and health is visualized through the experiences of Freddy Mason, a typically robust youngster.

H-36 GLEN WAKES UP 11 MINS.

A dramatic presentation of the importance of being a good citizen, designed to stimulate a desire to share responsibilities and privileges and to build desirable attitudes. This is the story of Glen, a young boy, who feels that everyone has turned against him; and of how Glen discovers that life holds more pleasure and more satisfaction when he shoulders his share of responsibilities.

H-73 GOOD GROOMING FOR GIRLS (Colour) 11 MINS.

Spending an evening with Rosemary, Anne sees that attractive appearance is achieved by a carefully followed routine — a well-planned and cared-for wardrobe; attention to hair, nails, teeth, personal daintiness, good posture; and proper diet and rest.

H-44 HAIR AND NAILS, CARE OF THE 11 MINS.

On the screen, a boy and girl illustrate habits of cleanliness and good grooming.

H-95 HEALTH HEROES: THE BATTLE AGAINST DISEASE (Colour) 11 MINS.

The contributions of five great men in the battle against disease are outlined within an historical framework. We see how Van Leeuwenhoek began the study of germs by improving the microscope; how Jenner developed the concept of vaccination; how Pasteur's and Koch's study of germs threw new light on the causes of disease; and how Lister helped demonstrate the relationship between sanitation and health.

H-96 HEALTH IN OUR COMMUNITY (Colour) 16 MINS.

Dramatizes the work of the Department of Health — both the everyday activities required to safeguard the community and the crises that result from the outbreak of a dangerous disease. The film stresses the teamwork that exists at all times between public health personnel and private medical people in dealing with community health problems: unsanitary living conditions, industrial hazards, accidents, contagious disease, and the danger of contaminated foods.

H-89 HEALTHY FEET (Colour) 11 MINS.

The structure of the foot is explained with the use of x-ray and animation, and the slow motion camera shows the function of each part in body motion. The importance of healthy feet and proper care to prevent skin diseases and other dangers is emphasized.

H-74 HEALTHY LUNGS 11 MINS.

Knowledge of the structure and work of the lungs helps to protect them from infection and injury. Healthy Lungs shows the windpipe, larynx, bronchial tubes, small air tubes, and the tiny air sacs, and animation demonstrates how the exchange of waste products for oxygen takes place.

H-97 HEALTHY SKIN (Colour) 11 MINS.
The importance of clean and healthy skin is explained in relation to the structure and function of the skin. Animation aids are utilized in examining pores, sweat glands, oil glands, blood vessels, nerve endings, and other parts.

H-12 HEART AND CIRCULATION, THE 11 MINS.
Animated drawings show the muscular and valvular action of the heart, and the nature of the circulatory system. Close-ups portray the effect of salt water and adrenalin on a turtle's heart; the rhythmic flow of blood from a severed artery; and the effect of severing the cervical nerve of a rabbit. Microscopic scenes depict capillary blood flow. Amplified sounds of heart beats are reproduced.

H-13 HEIRS OF TOMORROW 11 MINS.
This film depicts a complete day in a wartime nursery in England and pays tribute to the boys and girls of Canada who helped provide this service through their activities in the Canadian Junior Red Cross.

H-45 HEREDITY AND ENVIRONMENT 11 MINS.
An understanding of the influences that shape our lives is fostered by presenting examples of heredity and environment at work. Audiences learn the full meaning of heredity which gives us certain basic capabilities, and environment which helps determine the extent and direction of our use of those capabilities, an over-view of cultural inheritances, genetics, environmental influences, and their inter-relationships is presented.

H-75 HOW BILLY KEEPS CLEAN 11 MINS.
This film shows how to wash hands, face, neck, ears, and body; when to wash; and how keeping clean helps make a person better liked and healthier. How a child can play hard yet keep himself clean and healthy is demonstrated.

H-83 HOW OUR BODIES FIGHT DISEASE 9 MINS.
Acting as our bodyguards against many illnesses are the skin, some of the mucous membranes, the lymphatic system and the blood stream. The ways in which they protect us are visualized by animation and explained in simple terms.

H-76 IMMUNIZATION 11 MINS.
What immunization is and how immunity to infectious diseases is attained are explained in this film. Preparation and use of vaccine for smallpox, pneumonia and diptheria are demonstrated.

H-98 IN CASE OF FIRE (Fire Drills and Fire Safety) (Colour) 20 MINS.
This film vividly demonstrates that lessons learned from fire drills

can save lives in fire emergencies at school, at home, and at a crowded theatre.

H-105 IT'S BEST TO KNOW 8 MINS.
Produced by the Alcoholism and Drug Addiction Research Foundation of Ontario. Suitable for use in Grades 11, 12 and 13. In requesting this film, the principal must be assured that its use in the school will be entrusted to teachers of experience and judgment who will promote without embarrassment in the classroom a sincere discussion of the problems involved in consumption of alcoholic beverages. It is essential that the film be studied before presentation to a class and that a suitable introduction and typical questions as an aid in class evaluation of it be used, such as those provided with the film.

H-84 KEEPING CLEAN AND NEAT (Colour) 11 MINS.
When two eighth grade students visit a lower grade classroom to choose helpers for their assembly programme, the younger children begin to realize the value of making a good appearance. Through trick photography, two of the youngsters are whisked back to their home to retrace — and improve — their routine for keeping clean and neat. Taking the boy and girl separately, the film illustrates a practical, step-by-step routine for washing, dressing, grooming, and caring for their clothes.

H-64 LEARNING ABOUT OUR BODIES (Colour) 11 MINS.
Designed to familiarize children with the basic structure of the human body and the position and function of the major organs, this film also teaches that the body must be kept in good condition if it is to work properly.

H-65 LET'S BE AT HOME IN THE WATER (Colour) 11 MINS.
During his summer vacation, a nine-year-old boy visits friends who live on a lake. This film is intended to show elementary school children how they can have fun in the water if they learn to play safely and follow the rules.

H-37 LET'S PLAY FAIR 11 MINS.
This film deals with the problems of two brothers, Bill and Herb, concerning sharing their belongings and taking turns at household tasks. They find that fair play is really the way to have the most fun.

H-31 LET'S PLAY SAFE (Colour) 11 MINS.
Combining live photography and animation this film shows school children on the playground. Six playground incidents are dramatized showing hazardous situations developing. Just as it appears that someone will be hurt the action is stopped, and animated characters show what might happen. Then the children are given an opportunity to repeat their performance, but to correct their attitudes and do it safely.

H-91 LET'S THINK AND BE SAFE (Colour) 11 MINS.
Episodes are dramatized around common accident causes as: putting things in ears, sticking feet out into aisles, hurrying too fast, leaving things around, pushing and shoving in lines, handling sharp objects, teasing and showing off. Then the children discuss safety in a class panel meeting.

H-85 LIVE AND LEARN 11 MINS.
Illustrations are shown of some of the common accidents that happen to youngsters when they act first and think afterwards. Specifically mentioned are the dangers of jumping from a high place, playing with fire, playing in the street, standing in a canoe, running with scissors, and playing with guns.

H-92 LIVING AND GROWING 11 MINS.
The development of very young rabbits is observed as they eat, sleep and hop about in their sheltered home. We learn that children need the same things for living and growing that young rabbits do — shelter, good food, plenty of rest. Though we grow more slowly than rabbits, we are much larger now than when we were babies, and we can do many more things.

H-70 LOOK ALERT: STAY UNHURT 16 MINS.
The three R's of traffic safety, especially applicable to children, are outlined in this film. It tells the story of young Ted who leaps — before he looks — into the path of an oncoming car. The youngster is taken to police headquarters where the traffic officer explains, using small scale models and pictures, how accidents can happen and how they may be prevented by careful observance of safety rules.

H-14 MECHANISMS OF BREATHING 11 MINS.
Animated drawings are used to illustrate the functioning of the pharynx, larynx, trachea, bronchi, phrenic nerve and other organs of the breathing mechanism. Close-ups of the action of the lungs and trachea under varying air pressures are shown. The relation of breathing rate to the carbon dioxide content of air is portrayed. The Schaeffer method of artificial respiration is demonstrated.

H-46 MUSCLE STRAIN, HOW TO AVOID 22 MINS.
Describing some of the ways in which muscles may be strained, and the complications that result, the film is directed to educating the viewer in human anatomy, so that these accidents may not occur. Through live action and animated diagrams, muscular nomenclature of the body and its relation to mechanical lever action of the bones is illustrated. A knowledge of the three basic lever actions is stressed.

H-106 MUSCLES AND BONES OF THE BODY (Colour) 11 MINS.
This film emphasizes the importance of the muscles and bones to the

internal and external functioning of the human body, showing how tendons, joints, muscles, and the bones of the skeleton work smoothly together as one unit. We learn the difference between voluntary and involuntary muscles and the importance of proper exercise and diet to a healthy body.

H-99 NERVOUS SYSTEM (Colour) 16 MINS.
This film study of the nervous system emphasizes the basic functions of this system, its main organs, the various neurons of which these organs are composed, and the principal areas of the brain. Microscopic views of nerve tissue, a specimen of a human brain, animation and anatomical charts will help students to visualize this complex system and gain a better understanding of its control of the body processes.

H-77 NO TIME TO SPARE (Colour) 11 MINS.
The back-pressure, arm-lift method of artificial respiration is demonstrated.

H-86 NOSE, LEARNING ABOUT YOUR (Colour) 8 MINS.
Photography is used to explain how the nose serves as a hallway between the changeable outside world and the sensitive breathing organs. The nose is demonstrated as a sterilizer, cleanser, air conditioner and humidifier. This film suggests proper nasal health practices.

H-66 ONE LITTLE INDIAN (Colour) 16 MINS.
A puppet film teaches some traffic safety rules in an absorbing story about a little Indian boy who pays his first visit to a big city. From kindly city folk Magic Bow learns some basic safety precautions, and passes them on to his admiring public.

H-47 OTHER FELLOW'S FEELINGS, THE 11 MINS.
A dramatization of the problem of teasing or ridicule in a typical school situation, ending in a challenge to your students to discuss the problem and discover their own answers.

H-110 OUR WONDERFUL EARS AND THEIR CARE (Colour) 11 MINS.
On the day of the hearing test at school, Dick becomes very much aware of his ears and of the sounds he hears. Later, with diagrams and an ear model, Dick's doctor explains the structure of the ear, how we hear sounds, and how we should take care of our ears.

H-54 OUTSIDER, THE 11 MINS.
This is the story of a young girl who feels that her school group rejects her. It shows her own responsibilities as well as those of the group in helping the individual to adjust to her environment.

H-32 PATTY LEARNS TO STOP, LOOK AND LISTEN (Colour) 16 MINS.

Patty, a farm girl, visits the city. While playing on the road, she is hit by a car, given first aid, and taken to hospital in an ambulance. The Highway Patrol measure skid marks, estimate car speed, and fix the blame. Patty in hospital has her broken legs put in slings for six weeks, and is given expert care. She finally returns to her home and resolves never to play carelessly on the road again.

H-55 PERSONAL HEALTH FOR BOYS 11 MINS.

During adolescence, boys require guidance on practical health habits; why and how to shower, to shave, to guard against athlete's foot, to care for one's complexion, and to eat a balanced diet are discussed.

H-56 PERSONAL HEALTH FOR GIRLS 11 MINS.

Peggy, an attractive, modern high school girl, shares with the audience her routine of daily health habits so necessary to social poise and self-confidence.

H-16 PLAYGROUND SAFETY 11 MINS.

This is a motivational film, planned to improve playground behaviour. Three basic rules of the playground are stressed: (1) Be sure the play space is safe; (2) keep out of the way of other players; (3) learn how to play skilfully. The film is useful at all grade levels in the elementary school.

H-33 POSTURE HABITS 11 MINS.

This film story makes the child posture-conscious and motivates development of good posture habits during the formative years. The film treats standing, walking and sitting postures. The freshness and spontaneity of the story situation lend plausibility to the whole posture theme.

H-107 RESCUE BREATHING 18 MINS.

A clear dramatic presentation of the techniques used in applying mouth-to-mouth artificial respiration. Its application in various types of emergency situations is demonstrated.

H-57 RESPIRATION, EXTERNAL (Colour) 16 MINS.

This film depicts very clearly with the aid of close-ups and animation, the structure and function of the lungs, and the way the nose, ribs, and diaphragm aid in respiration. An excellent teaching aid for high school grades.

H-58 RULES AND LAWS 16 MINS.

An elementary explanation of the purpose of rules and laws is demonstrated by a father to his three children. By trial and error with the running of an electric train, he points out the necessity for rules. From a playground game to street safety, we follow the demonstration. The closing sequences show the application of rules in our social set-up, and in our governing bodies.

H-34 SAFE LIVING AT SCHOOL 11 MINS.
Ted and Ruth were elected to the Junior Safety Council. We go with them on a safety tour to see the safety features of their school and to learn what students can do at school to live safely. By emphasizing courtesy, good housekeeping, skilful and correct actions, this motivational film shows the proper concepts of safe living at school.

H-19 SAFE USE OF TOOLS 11 MINS.
A picture of children at home using tools such as scissors, knives, hammers and saws under the watchful eyes of parents. Instructions are given for the proper methods of handling these tools.

H-20 SAFETY IN THE HOME 16 MINS.
Safety hints and precautions against accidents in the home are presented. The film shows a typical home and the family. Every room is visited and safety measures suggested for making the home a safe home.

H-78 SAFETY IN THE SCHOOL BUILDING (Colour) 11 MINS.
When it is Bill's turn to be the Safety Guide in his classroom, he uses a STOP sign to call attention to any action that is dangerous and a GO sign to point out the performance of good safety practices.

H-59 SAFETY IN THE STREET 11 MINS.
By illustration of street safety precautions, important safety habits are encouraged. Street crossings, stop signs, traffic lights, etc., are discussed.

H-79 SAFETY IN WINTER 11 MINS.
The importance of being weatherwise — wearing galoshes to keep from falling, being more alert when crossing streets, dressing for the season — is stressed, as well as safe sledding, throwing snowballs in proper places and ice-skating cautiously.

H-93 SAFETY ON THE SCHOOL BUS (Colour) 11 MINS.
For all students who ride school buses, this film clearly explains and illustrates important safety practices — the proper procedures for getting on and off, and six common-sense rules for safe conduct while riding.

H-100 SAFETY ON THE WATER 11 MINS.
In this film Eye Witness cameras team up with the law to present some water safety rules for grown-ups. We see how marine patrols of the Royal Canadian Mounted Police put the damper on happy

holidayers with too much enthusiasm and too little caution. Overcrowded small craft, careening power boats and reckless maneuvering in bathing areas are the special concern of the patrols as they spell out the law to violators. Their formula is patience mixed with firmness, and the over-riding aim is to reduce water accidents and make Canada's vacation resorts safe and enjoyable.

H-67 SKIN, CARE OF THE 11 MINS.

Demonstrates the good habits of skin hygiene which every child should form. Portrays three attractive children as they prepare for bed, showing the proper way to wash hands and face, and to bathe. Common skin ailments are illustrated. Animated drawings describe the structure of the skin and explain why soap is necessary for cleanliness.

H-48 SLEEP FOR HEALTH 11 MINS.

Outlines correct living habits which lead to restful sleep. The slowing down of body processes during sleep is explained. The film shows the benefits of rising early, and the handicaps that result from insufficient sleep.

H-87 SPINAL COLUMN, THE 11 MINS.

Supplementing live action scenes with X-ray and stop-motion photography, animated drawings, and graphic close-ups, this film provides a detailed study of the structure and functions of the spinal column. The five spinal regions are identified, the curvatures of the spine are described and the importance of good posture is stressed.

H-101 TAKING CARE OF MYSELF (Colour) 11 MINS.

The film demonstrates the desired achievement level in physical and social activities of the well-adjusted five- to six-year-old child. Dickie's activities are designed to help develop in him proper attitudes and skills.

H-38 TEETH ARE TO KEEP 11 MINS.

A two-dimension animated "cut-out" cartoon designed for primary and junior children, this film drives home in pleasant story form the four main points in dental care: brush teeth after eating; eat foods that build teeth; avoid candy; visit the dentist regularly.

H-23 TEETH, THE 11 MINS.

The film describes the care of teeth, based on a knowledge of what teeth are, how they are formed and the specific elements of food and cleanliness that are most important. Animated drawings show the complete development and growth cycle of teeth from the embryonic stage through adulthood.

H-24 TEETH, YOUR 11 MINS.

This film illustrates and explains the structure, growth and care of the teeth by alternate use of live action and animation. The opening sequences use animation to show how baby teeth are replaced by permanent teeth. The structure of a typical tooth is illustrated. This is followed by an explanation of how and why a tooth decays, along with a demonstration of proper brushing methods.

H-102 THAT THEY MAY LIVE (Colour) 19 MINS.

This film teaches direct artificial respiration method of mouth-to-mouth breathing. Sequences reveal its use in a car collision case, plastic bag accident, industrial injury, an ice-box scene, and a laboratory incident. It illustrates dramatically how a clear airway passage is established, and how this method of artificial respiration is best performed.

H-71 TOBACCO AND THE HUMAN BODY 16 MINS.

An authentic report on the scientific results of modern research, evaluating the effects of the use of tobacco. The film analyzes the contents of tobacco smoke, demonstrates some of the physiological effects of smoking, and sums up the factors to be considered in deciding whether or not to smoke.

H-103 TOMMY'S HEALTHY TEETH (Colour) 11 MINS.

Having just lost a first tooth, Tommy is eager to learn more about his teeth. He discovers that different teeth do different jobs — like cutting, tearing, and grinding. When he visits Dr. Brown he finds the dental office a very interesting place. He has a cavity filled, and learns that regular dental checkups are as important to having healthy teeth as brushing them properly and eating the right foods.

H-28 WATER—FRIEND OR ENEMY? (Colour) 11 MINS.

A Disney film, produced for the U.S. Office of Inter-American Affairs, on unsafe water supplies. Depicts the dangers and sources of contamination, and illustrates methods of safeguarding spring and well water.

H-49 WHY WON'T TOMMY EAT? (Colour) 22 MINS.

The theme of the film is the prevention and cure of lack of appetite which is so prevalent among children today. It illustrates for parents the principles involved in training in good eating habits from infancy. It pictures those methods of training which have been successful in helping children to develop and retain a good appetite which is essential to health, growth, and adequate social adjustment. For Home and School Club audiences.

Home Economics

HE-1 BAKING TEA BISCUITS (Colour) 16 MINS.

This is an instructional motion picture which teaches exactly what the title indicates. The techniques of the instructress are exceedingly well performed, and the camera enables the entire audience to see all movements very closely. The presence of school girls performing the techniques which have been taught enlivens the interest of the picture.

HE-12 BUYING FOOD 11 MINS.

The factors that guide wise and economical buying of foods are dramatized. The film points out the dangers of impulse buying, and discusses quantity buying, understanding descriptive labels on canned goods, seasonal buying, and guiding factors in buying meats.

HE-2 CLOTHING FOR CHILDREN (Colour) 11 MINS.

This film demonstrates the proper clothing for young children of various ages. The considerations of health and practicability above those of fashion are emphasized.

HE-13 COOKING—KITCHEN SAFETY 11 MINS.

Stresses the common hazards that exist in every kitchen, and illustrates specific examples of each. Discusses and demonstrates simple precautions that can be taken to prevent accidents in the kitchen.

HE-14 COOKING—MEASURING 11 MINS.

Explains why some experienced cooks do not appear to follow precise measurements, and why most cooks must be very careful in their measuring. Illustrates the more common measuring devices used in the kitchen, and demonstrates correct procedures for measuring typical dry solids, liquids, and fats.

HE-15 COOKING—PLANNING AND ORGANIZATION 16 MINS.

Illustrates a well-ordered kitchen in which equipment and cooking utensils are organized for ease and efficiency in work. The film shows what can happen when preparation of a meal is attempted without adequate planning, and how such troubles can be remedied by planning and by the use of such devices as the time-chart.

HE-3 COOKING, PRINCIPLES OF 11 MINS.

This film emphasizes the fundamental principles of simple cooking processes — boiling, frying, broiling, roasting and steam cooking. Animated drawings explain the changes that take place in starches and meat when heat is applied. Helpful hints are given in regard to cooking and food values.

HE-4 COTTON CLOTHING, MAKING OF 11 MINS.

Tells the story of a child's cotton print dress from the designing of the original to the pressing and packing of finished garments in a modern factory under mass production. Hand methods are contrasted with quantity production technique.

HE-26 FLAXEN HERITAGE (Colour) 14 MINS.

The story of Irish linen is depicted, from the planting of the flax seed to the processing of the finished fabric. The major operations — retting, scutching, combing, spinning, bleaching and weaving — have been transformed from age old methods through the use of modern machinery and technology. Many uses of linen are shown as they contribute to everyday living.

HE-6 FOOD AND NUTRITION 11 MINS.

Animated drawings portray the body's requirements of carbohydrates, fats, protein, minerals, vitamins and water. The absorption of sugar by the blood stream and the absorption and storage of fats are explained.

HE-28 FOUR FAMILIES 59 MINS.

An on-the-spot comparison of family life in India, France, Japan and Canada, in which the internationally known author-anthropologist, Dr. Margaret Mead, discusses with the film's writer-director how the upbringing of children contributes to a distinctive national character. Centre of attention in each case is a year-old baby in the family of a farmer of average means. Dr. Mead summarizes the more typical national characteristics at the conclusion of the film.

HE-29 FRUSTRATING FOURS AND FASCINATING FIVES (Colour) 22 MINS.

A study of the behaviour of four- and five-year-old children at home and at nursery school. Young Roddy presents typical examples of the actions of a child at these ages, as the film follows his development and that of his classmates. At four the vacillation between infantile helplessness and vigorous self-assertion is seen, and at five the development of independence and the beginning of co-operation.

HE-30 HE ACTS HIS AGE 15 MINS.

How a child's emotional development normally keeps pace with his physical growth, and the behaviour he exhibits at certain ages. This film examines the play habits of children from one to fifteen years of age, shows the characteristics of each group and stresses that only if we really understand children can we effectively help them.

HE-7 HOME CANNING 11 MINS.

This film shows the steps concerning the operation of scientific principles such as bacteriological problems involved in canning, temperatures required for sterilization, timing, and hermetic sealing. It illustrates **why** rather than **how** each process is done.

HE-8 HOME NURSING 11 MINS.
This film gives the story of how one girl cared for her sister who was ill with pneumonia. A public health nurse explains and demonstrates the proper methods of caring for a patient, keeping records and making convalescence comfortable and interesting.

HE-22 HOW TO GET FABRIC READY FOR SEWING 16 MINS.
This film explains why it is essential for the horizontal and vertical threads in fabrics to be at right angles to one another, and shows how to handle fabric that is printed off grain in order to insure that the garment will fit and hang properly.

HE-18 JELLY AND JAM SESSION (Colour) 11 MINS.
This film deals with the reasons why jams and jellies set and contains many helpful suggestions on making jam from fresh, frozen, or dried fruits as well as prepared juices. A demonstration is given of jam-making by the quick "Short-boil" method, made possible by adding concentrated fruit pectin.

HE-31 NEW BABY, THE 20 MINS.
This film illustrates a sound routine of baby care. It deals with bathing, feeding, sleeping, clothing and general comfort of the infant, and also discusses attitudes conducive to the acceptance of the new arrival in a home where there are other children.

HE-23 PATTERN TYPES 16 MINS.
The different kinds of figure types and the relationship between them are illustrated. The film explains variations in the average figure, using models, pattern shells, and other ingenious teaching devices, and points out differences between the girl, teen, junior, misses, half sizes and full figures of today's women.

HE-32 ROOTS OF HAPPINESS 25 MINS.
Shows the value of sound family life in the healthy development of children, with particular emphasis on the constructive role of the father. This film is suitable for use with general audiences for teaching and discussion purposes.

HE-24 SELECTION OF PATTERN AND FABRIC 16 MINS.
How to select the proper size pattern, the notions, and fabric that will best fit the pattern is shown with explanations of how synthetics, lightweight cottons, sheer silks or rayons, and heavy-duty cottons should be used in relation to the kind and style of dress desired.

HE-33 TERRIBLE TWOS AND TRUSTING THREES (Colour) 22 MINS.
A study of child behaviour at two and three years, showing what to expect from youngsters of these ages and suggesting how parents can deal constructively with the problems they present. The film shows a group of active children in playground, nursery school and home, first as two-year-olds and then as threes. In play, we see, they learn control of their bodies, the qualities of different materials and how to give and take with other people. At home, an average mother is seen handling such problems as destructiveness, tantrums, rivalry with younger children, and unreasonable fears.

HE-27 TIPS FOR TABLES (Colour) 13 MINS.
Table setting can be an art. By offering a variety of unique, imaginative, yet practical, table-settings and centrepieces for simple luncheons and formal dinners, this film stimulates the creative ability of the hostess. Suggestions for simple-to-make place mats and napkins are included, as well as original ideas for centrepieces.

HE-34 WEDDING DAY 29 MINS.
The differences and similarities of three wedding ceremonies are compared. Wedding scenes from Nigeria, Brazil and Ontario are shown, including preparations, nuptial rites and the marriage feast. Emphasis on national traditions, civil and religious customs, as well as the gala aspect of the event, give a balanced portrayal.

HE-25 WHY FOODS SPOIL (Colour) 14 MINS.
After a brief review of the ways in which pioneers struggled to preserve foods, the film describes the work of moulds, yeasts, and bacteria — explains how they grow and multiply, how they spoil food, and how they can be destroyed by such methods as drying and smoking, canning and freezing, pasteurizing, dehydrating, and the use of gamma rays.

HE-19 WHY STUDY HOME ECONOMICS? 11 MINS.
Two teen-age girls learn how a knowledge of homemaking can contribute to the enrichment of life. They also learn about the vocational opportunities available to home economics students.

Industrial Arts

IA-1 DRAFTING TIPS 28 MINS.
Instruction is given in the use and care of drafting equipment, with some emphasis on three essentials — cleanliness, accuracy, and orderliness. The film contains instruction on the proper sheet layout and the use of an alphabet of lines. It depicts graphically the best procedure in developing a drawing in the most efficient and accepted manner.

IA-7 DRILLING AND BORING TOOLS 11 MINS.
The nature, function, use and care of boring and drilling tools used in woodworking are demonstrated.

IA-2 FILING, FUNDAMENTALS OF 11 MINS.
Motion pictures are combined with commentary to define the terms used relative to filing, and to assist the beginner in the choice of the right file for each job.

IA-3 FOCUS ON INDUSTRIAL ARTS (Colour) 22 MINS.
The film is designed to highlight the various activities in the Industrial Arts department of the elementary school. Reference is made to the contribution this type of work makes to the development of the students.

IA-5 MACHINES, SIMPLE 11 MINS.
The basic features of simple machines; the inclined plane, the pulley, the screw, levers and wedges are demonstrated in this film. The application of these simple devices to complex machines and the part that such machines play in modern industry are treated.

IA-8 SAFE SHOP 11 MINS.
Some of the basic safety problems and principles for the woodworking shop are demonstrated and explained. Special attention is given to clothing, floors and aisles, fires, electrical equipment, power tools, and other safety factors in the shop.

IA-6 VERNIER SCALE 22 MINS.
A detailed study of the principles of the Vernier scale and its application and use in the micrometer and Vernier calipers. Animated drawings are used to make the explanation clear.

IA-9 WHY STUDY INDUSTRIAL ARTS? 11 MINS.
This film presents a discussion of why the study of industrial arts is important to the student now and in later life.

IA-10 WOOD FINISHING 16 MINS.
The common types of finishing materials used on wood and the procedures for each are explained.

Language

L-9 CLAUDIUS: BOY OF ANCIENT ROME (Colour) 16 MINS.
This film attempts to depict — through the varied experiences and activities of a young boy — the way of life and customs of ancient Rome. Dialogue sequences are spoken in Latin and have English subtitles.

L-2 COURS PRIMAIRE DE FRANCAIS 11 MINS.
This experimental film was produced by the French Club of University College, Toronto. The fifth and eleventh lessons from Cours Primaire by Professors Jeanneret and H. B. St. John are dramatized.

L-3 LATIN, WHY STUDY 11 MINS.
The value of Latin for an understanding of history, an appreciation of literature, and a mastering of English, as well as the practical application of Latin in many professions is clearly presented.

L-4 LE FRANCAIS PAR LE FILM (Lesson 1) 22 MINS.
This film introduces the main characters in a typical French family. It stresses pronunciation of certain French words and consonants.

L-5 LE FRANCAIS PAR LE FILM (Lesson 2) 22 MINS.
The settings used are a tea table, and a railway station. This film stresses inflection in connected speech — the partitive article.

L-6 LE FRANCAIS PAR LE FILM (Lesson 3) 22 MINS.
This film deals with the home, and various parts of the body. It stresses negatives, and personal and possessive pronouns.

L-7 A PARIS 16 MINS.
This film furnishes intimate glimpses of the economic and cultural life of Paris. Included are views of the Place de l'Opera, railroad stations, an auto factory, the early morning markets, department stores and various neighbourhoods of the city.

L-8 TAN-GAU METHOD, THE (Colour) 29 MINS.
This film, which was produced in 1962 for the Canadian Conference on Education, illustrates in two 14-minute lessons the Tan-Gau approach for teaching oral French.

Mathematics

M-1 AREAS 11 MINS.
This film stresses the need for finding the areas of various figures. Graphic demonstrations of recognized methods for computing areas of rectangles, parallelograms, triangles and circles are shown. The film will help the student fix fundamental principles in his mind by showing how relations in the figures result in relationships in the formulas.

M-25 BIG NUMBERS—LITTLE NUMBERS (Colour) 11 MINS.
The film explores the method man has developed to simplify the representation of both large and small numbers. Our number system uses a base of ten. Scientific notation, the use of exponents, enables us to express any number, large or small, as the product of a number between one and ten and a power of ten.

M-26 CONCEPT OF FUNCTION 16 MINS.

This film presents the concept of function from the point of view of sets of ordered pairs of numbers. The notion of a function involves a domain, a range, and a rule or formula. The language of sets is used to help clarify the meaning of these three words. A clear distinction is made between the notation F for a function, and F (x) for the value of the function for a particular value of x.

M-9 DIVISION IS EASY (Colour) 11 MINS.

The film helps a class to understand division, to know why division is important, and to know what to learn in order to master this basic arithmetical process. It may be used to introduce the study, to enrich it, or to review it in later grades.

M-19 DONALD IN MATHMAGIC LAND (Colour) 26 MINS.

Donald Duck learns the importance of mathematics from the early Greeks who first discovered some of its basic principles. In successive sequences these principles are related to music, art, architecture, mechanics, sports and other phases of our daily lives.

M-5 GEOMETRY AND YOU 11 MINS.

In order that students may better appreciate the function of geometry, the film gives a practical demonstration of its everyday importance. In constructing a model porch, Bob and Jim use protractor and ruler to apply their study of such figures as rectangle, triangles and circles, and such principles as congruence, similarity and symmetry.

M-27 IRRATIONAL NUMBERS 23 MINS.

The major objective of the film is to demonstrate an approach to irrational numbers which will lead students to realize that there is nothing mysterious about them, but that they are numbers which enjoy all the properties of, and obey the same rules, as rational numbers. It attempts to show how irrational numbers can be introduced through a consideration of decimal fractions; it develops certain important structural properties of rational and real numbers that need to be understood if one is to gain any really clear concept of the nature of irrational numbers. The properties of order and denseness, for example, are discussed in detail.

M-15 LET'S MEASURE: INCHES, FEET AND YARDS 11 MINS.

Jimmy and his father use a ruler to measure Jimmy's height. They examine the ruler, noticing the units of length marked thereon. From the foot ruler, they proceed to the yardstick and the measurement of longer lengths. Jimmy then plays a game measuring familiar objects and learns how to estimate inches, feet and yards.

M-16 LET'S MEASURE: OUNCES, POUNDS AND TONS 11 MINS.

A pound of cotton and a pound of iron bolts look different, but Tommy uses the scale and finds that each weighs the same. He finds the way to build up a pound through adding ounces (¼ lb. and ½ lb. are introduced); he discovers some of the ways we use measurements of weight; and he begins to learn to estimate weight of common articles.

M-17 LET'S MEASURE: PINTS, QUARTS, AND GALLONS 11 MINS.

This film finds Ricky puzzling about liquid measures as mother makes punch. Experimenting, he discovers numerical relationships among the standard measures and learns that the shape of a measure does not affect the amount it will hold. On a subsequent trip to the store, Ricky sees symbols for the measures and has fun identifying various quantities.

M-2 LOCUS 11 MINS.

The general concept of locus is clearly visualized and explained by this combination of animated drawings and regular photographic motion. Teachers will find this film useful for introducing or reviewing the topic of the locus.

M-28 MATHEMATICS FOR TOMORROW (Colour) 25 MINS.

This film is designed to acquaint parents, teachers, and the general public with the new methods of mathematics teaching being used today to help prepare our children for tomorrow. Basic principles involved in the new methods are emphasized, and the increased importance of mathematics is shown. **Useful for Home and School Associations,** this film has limited value for in-service training of teachers.

M-6 MEANING OF PERCENTAGE 11 MINS.

Provides an introduction to the meaning of percentage by relating it to the student's previous understanding of fractions and decimals.

M-10 MEANING OF PI 11 MINS.

This film develops an understanding of this important mathematical ratio and outlines a study procedure by which the numerical value of pi can be arrived at, checked, and reviewed. Sequences show the use of circles in art, industry, and commerce.

M-7 MEASUREMENT 11 MINS.

Don, a boy of twelve, encounters everyday situations involving measurement of the seven kinds treated in the film: linear, square, cubic weight, liquid, temperature, time. The illustrations are simple ones, such as making a ball diamond, counting money, measuring a room, etc., but they highlight the importance of measurement to modern living and motivate the study of means and tools of measuring.

M-20 MEASURING AREAS: SQUARES, RECTANGLES (Colour) 11 MINS.
A graphic approach provides insights from which the child may confidently generalize that the area of any square or rectangle may be found by multiplying its length by its width. The film introduces the square unit of measure, showing how it is related to the total area of the plane figure, and shows some practical uses of area measurement.

M-21 METRIC SYSTEM, THE (Colour) 11 MINS.
The history of the metric system and its uses today are included in this film which clearly illustrates the basic units. English and Metric units are compared, and the advantages of computations in the metric system are demonstrated.

M-11 MULTIPLICATION IS EASY 11 MINS.
The procedure of multiplication is demonstrated in this film. It shows why this process is important to know, and the main steps in learning how to multiply. Children are shown that multiplication, as a means of solving real problems, can be fun, useful, and rewarding.

M-29 NUMBER FIELDS 17 MINS.
The concept of algebraic structure depends upon an understanding of sets, closure, and number fields. This film presents these basic ideas. Algebraic structure can be a helpful approach to the effective teaching of the basic concepts of algebra. To this end a field is defined as a set of elements with two operations for combination and such that it satisfies a set of eleven requirements. These requirements are discussed in detail in the film.

M-12 NUMBER SYSTEM, THE (Colour) 11 MINS.
This film demonstrates the combining of single objects into groups of ten. This is followed by counting groups of tens. Several combinations, representing a variety of combinations with two place numbers only, are given.

M-22 PYTHAGOREAN THEOREM: THE COSINE FORMULA 6 MINS.
This film shows how the Pythagorean Theorem may be applied to acute angled triangles in addition to right angled triangles, and how this leads to the cosine formula. Animated drawings prove that as the acute angle approaches a right angle, its cosine approaches zero, so that the Pythagorean Theorem reappears.

M-23 PYTHAGOREAN THEOREM: PROOF BY AREA 6 MINS.

In this film, animated diagrams provide a visual demonstration of the principles of geometric movement and transformation, to show how the square of each side of a right angled triangle may be transformed to a parallelogram of equal area, and how these may be proved to be equal in area to the square of the hypotenuse.

M-3 RECTILINEAR CO-ORDINATES 11 MINS.

Descartes' theorem, point, line, plan, co-ordinates, axes and three dimensional locations are explained by extensive use of animation. This is a film which introduces the student to the basic ideas of analytical geometry in an interesting and fascinating manner.

M-30 SENTENCES AND SOLUTION SETS 21 MINS.

The film develops, by means of the set approach, the following basic concepts: variable, sentence in one variable, solution set, graph of a solution set, set selector, set builder notation. Emphasis is given to solutions of inequalities. Three important concepts stressed are that the notion of set brings clarification, simplification and unification to all areas of mathematics.

M-24 STORY OF OUR NUMBER SYSTEM (Colour) 11 MINS.

This film traces the historical development of numbers, including the counting systems of the Babylonian Empire, the Mayan civilization, and Rome; the development of calculating with the abacus; the need for a place holder, which became the zero; and the probable development of our present symbols.

M-13 SUBTRACTION IS EASY 11 MINS.

Billy faces the problem of deciding whether he will have enough money to buy a baseball after purchasing paints and a bat. Pupils see arithmetic in action — and learn borrowing and other fundamentals of subtraction. The film deals with three-digit numbers.

M-8 WE DISCOVER FRACTIONS 11 MINS.

Helps students to relate the arithmetic symbols of fractions to their own experience. A piece of pie, half an apple, a board sawed in fourths for shelves, and a cup and a half of milk for a layer cake present fractions in familiar terms that simplify the definition of such words as numerator and denominator so that students can readily grasp the uses of fractions.

M-18 WHAT ARE FRACTIONS? 11 MINS.

By use of examples from everyday experience, the relationship of parts to the whole, the reason for writing the fraction as we do, the difference between the numerator and the denominator, fractional parts of groups, and many other important concepts are developed.

M-4 WHAT IS FOUR? 22 MINS.
This film is designed specifically to help develop the meaning of numbers. It introduces the number four in a variety of concrete situations, and then proceeds to an abstract presentation of four based on the visual treatment of these situations. The latter part of the film discusses simple addition and subtraction facts about the number four.

M-14 WHAT TIME IS IT? 11 MINS.
As Barbara plans and prepares for her approaching birthday party, she learns to tell time by the clock — five minute intervals, half hours, and quarter hours — and by the calendar. The film uses several good participation devices.

Music

MU-1 AIDA 11 MINS.
The National Philharmonic Orchestra of one hundred and twenty-two pieces plays the triumphant March from "Aida". A mixed chorus of one hundred voices sings with the orchestra. The camera shows the various instrument sections as they are featured.

MU-39 APPASSIONATA FANTASY 11 MINS.
An experimental film in which abstract visual shapes are produced by an artist, accompanied by the music of the Beethoven Sonata.

MU-53 ARTIST'S LIFE 6 MINS.
Johann Strauss' "Artist's Life" is performed by the Vienna Philharmonic Orchestra. Ballet members of the Vienna Opera are also shown.

MU-45 BEETHOVEN AND HIS MUSIC (Colour) 14 MINS.
The music of Beethoven reflects the great social upheavals of the eighteenth century, the composer's own unusual strength and genius, and a transition from the classical formality of Haydn and Mozart to more romantic expression. The film develops the relationship between Beethoven's environment and his personal responses to it in terms of his music.

MU-51 BRAHMS AND HIS MUSIC (Colour) 14 MINS.
The music of Brahms is used as a framework within which are presented persons who influenced the composer, places where he lived, and important ideas of his life. In understanding the controversy over his music during his lifetime, students will understand Brahms' contributions.

MU-2 BRASS CHOIR, THE (Colour) 16 MINS.
Reveals the function of the brass choir in full orchestral setting. Shows each brass instrument in solo passage revealing the tone qualities, construction and playing technique of each. Masterpieces of the world's music literature are reproduced.

MU-50 CONDUCTING GOOD MUSIC 14 MINS.
This film traces the development of conducting and illustrates techniques which the conductor uses to interpret the score. The three basic time signatures and the way they are expressed by the conductor are analyzed. The effects of playing the same composition with variation in tempo, sound intensity and colour are illustrated.

MU-34 COUNTRYSIDE MELODIES (Colour) 11 MINS.
Appropriate garden scenes pass on the screen to the accompaniment of orchestral music based on Grainger's "Country Gardens". Pictures of castle ruins in the dawn form a suitable introduction to fox hunting scenes during which a glee club sings the stirring "John Peel".

MU-3 EMANUEL FEUERMANN ('Cellist) 11 MINS.
Feuermann made his musical debut at eleven, and was teaching 'cello at seventeen at Cologne University. Successful American and world tours followed his debut with the Philharmonic Symphony of New York. He plays "Rondo, Opus 94" by Anton Dvorak and "Spinning Song" by David Popper.

MU-52 HANDEL AND HIS MUSIC (Colour) 14 MINS.
Filmed in Germany, Italy, and in London — where Handel reached the height of his career — the film presents the key figure in the development of baroque music. Musical selections illustrate his contributions, including the oratorio form which he perfected in such works as the beloved "Messiah".

MU-5 HYMNALOGUE (Colour) 11 MINS.
This film consists of four hymns: The Lord is My Shepherd, Sweet Bye and Bye, Lead Kindly Light, and Sweet Hour of Prayer. The music is by a male quartette with suitable scenic background. Recommended for assembly singing.

MU-6 IGOR GORIN (Baritone) 11 MINS.
The magnificent voice of this well-known concert, radio and motion picture artist is presented. Igor Gorin sings the "Largo Al Factotum" aria from "The Barber of Seville" by Rossini.

MU-35 IN A MONASTERY GARDEN 11 MINS.
The visual accompaniment for this well-loved selection attempts to

show what Ketelby might have seen when he was moved to compose the music — the monastery garden with its flowers and trees, the procession of chanting monks, and the chapel.

MU-7 INSTRUMENTS OF THE ORCHESTRA 22 MINS.
With complete seriousness and high professional performance, the three means by which all instruments of the symphony orchestra produce musical sounds are illustrated. The string, wind, and percussion instruments are shown and listened to individually and as parts of a full symphony. Each instrument is identified as it becomes part of a fugue, as played by the London Symphony Orchestra. This film dramatizes well the role of the individual instrument against the whole orchestral background.

MU-48 LISTENING TO GOOD MUSIC 14 MINS.
The Fine Arts Quartet illustrates the fundamentals of group musical performance. The range and distinctive qualities of each instrument are identified, then combined to show how the four voices develop theme and mood.

MU-27 LUCIA DI LAMMERMOOR 30 MINS.
Donizetti's masterpiece is sung by a cast drawn from La Scala of Milan and the Opera House of Rome, using authentic costumes and stage settings. Highlights of the opera are interspersed with commentary so that the thread of the story is maintained.

MU-54 MAN OF MUSIC 18 MINS.
A film profile of Healey Willan, a man who, more than any other, has influenced Canadian music. Composer, conductor, choirmaster, organist and teacher, Healey Willan has devoted a lifetime to musical activity in Canada. In this film you see Dr. Willan going about his day in ways that he enjoys — at his favourite organ in the church where he is choirmaster, at work in his study, or dropping in for a visit with students at the Royal Conservatory of Music, Toronto.

MU-28 METROPOLITAN QUARTETTE 11 MINS.
The Metropolitan String Quartette plays Mozart's "Serenade" from "Eine Kleine Nachtmusik".

MU-13 MILDRED DILLING, HARPIST 11 MINS.
The foremost woman harpist, who has appeared before select audiences in America and Europe, plays "The Fountain" by Zabel, "Fireflies" by A. Hasselmans, and "March of the Men of Harlech" arranged by John Thomas.

MU-14 MOONLIGHT SONATA—MINUET IN G 11 MINS.
Two beloved classics, played by the world's greatest pianist, Paderewski.

MU-46 MOZART AND HIS MUSIC (Colour) 14 MINS.
The scenes of Mozart's life are synthesized with his classical compositions. Selections of his music are presented against backgrounds of such cities as Salzburg, where Mozart was born and acclaimed a boy genius, and Vienna where he later lived and composed some of his most mature works.

MU-15 MUSIC IN THE WIND 11 MINS.
Shows how skilled craftsmen are employed in the construction of a pipe organ. Concludes with an organ solo by Dr. Healey Willan.

MU-16 OVERTURE TO ROSAMUNDE 11 MINS.
A symphonic featurette of Franz Schubert played by the National Philharmonic Symphony Orchestra of 122 pieces, conducted by Frederick Feher.

MU-17 OVERTURE "1812"—TSCHAIKOWSKY 16 MINS.
Written for the dedication of the new cathedral at Moscow, this work represents the Battle of Borodino, which was Napoleon's first battle in the Russian campaign; soon to be followed by the defeat at Moscow and the retreat of the French army.

MU-18 PAGLIACCI 27 MINS.
Scenes from the Italian Grand Opera "I Pagliacci" by Leoncavallo. Excellent singers and staging.

MU-19 THE PERCUSSION GROUP 11 MINS.
Demonstrates with full orchestral accompaniment the playing techniques of the tympani, tom tom, snare drum, bass drum, tambourine, cymbals, chimes, gong, castanets, triangle, bells, xylophone and celesta.

MU-49 PLAYING GOOD MUSIC 14 MINS.
The performance technique of the Fine Arts Quartet, shown in close-up, illustrates bowing, fingering, teamwork, and the ways in which the musical ideas and leadership pass from one player to another.

MU-37 RHYTHM—INSTRUMENTS AND MOVEMENTS 11 MINS.
This film for primary grades presents the basic concepts of rhythm and explains how a well-developed sense of rhythm contributes to a fuller enjoyment of living.

MU-42 SAXOPHONE IN CONCERT, THE 17 MINS.
The possibilities of the saxophone as a solo instrument are demonstrated in four works, ranging from a selection by Purcell to a 20th century rhumba.

MU-47 SCHUBERT AND HIS MUSIC (Colour) 14 MINS.
Moving along the streets and countryside of Vienna, pausing at Schubert's birthplace and at the music school where he studied, the film recaptures the tempo of early Vienna. Out of this blending of melodious music and Viennese settings comes a greater understanding of Schubert, the mode of expression known as "romanticism", and the part it played in his music.

MU-30 SOUNDS OF MUSIC 11 MINS.
Two children meet their local music store proprietor who demonstrates for them the principles of frequency and amplitude with the grooves and sounds of a phonograph record. On a tour of the shop they see and hear a selection of instruments (string, brass, woodwind, reed and percussion), gaining a knowledge and appreciation of the significant sounds of each.

MU-21 STRING CHOIR, THE 11 MINS.
Shows the importance of stringed instruments in orchestral music. Bowing and finger techniques of playing violin, viola, cello and contrabass are illustrated. The music includes portions of Schubert's "Rosamunde", Tschaikowsky's "Fourth Symphony", Mendelssohn's "Violin Concerto", Rossini's "William Tell Overture", and Schubert's "B Minor Symphony".

MU-22 SYMPHONY ORCHESTRA, THE 11 MINS.
Delineates the relation of composer and conductor to symphonic music, and elaborates the various choirs that make up the orchestra, together with the function of each. The technique of the conductor is treated in detail. The compositions featured are "Ride of the Valkyries" and the prelude to Act II of "Lohengrin".

MU-55 THOUSAND AND ONE NIGHTS, A 6 MINS.
The Vienna Philharmonic Orchestra under the direction of Karl Boehm perform this work by Johann Strauss.

MU-56 TRUMPET, HORN, AND TROMBONE (Colour) 11 MINS.
The film shows simple, basic techniques — producing notes with the lips only, the function of the valves in the trumpet and horn, and the slide in the trombone. The instruments are demonstrated separately and combined as a trio.

MU-24 VALSE BRILLIANTE IN A FLAT 11 MINS.
Generally considered to be the greatest waltz by Chopin. It has a stirring introduction followed by a theme of a quieter nature.

MU-44 VIOLIN, STORY OF THE 22 MINS.
This film shows the development of the violin since Stradivarius. A master craftsman is seen at work constructing the instrument.

MU-38 VOCAL MUSIC 11 MINS.

A choir conductor coaches individual members of a secondary school choir in the elements of correct singing, stressing posture, controlled breathing, use of resonators, and clarity of diction.

MU-25 VRONSKY AND BABIN 11 MINS.

This film presents the technique of these two brilliant performers as duo-pianists. The compositions in the film are: "Waltz in A Flat" by Brahms; "Valse" by Arensky; "Flight of the Bumble Bee" by Rimsky-Korsakoff.

MU-31 WILLIAM PRIMROSE, VIOLIST 11 MINS.

This film demonstrates the qualities of the viola in the hands of a master. The artist plays three numbers: "Polonaise" by Beethoven; "Ava Maria" by Schubert, and "Caprice" by Paganini.

MU-32 WILLIAM TELL 30 MINS.

Rossini's opera is sung by an outstanding Italian cast with proper costumes and stage settings. Scenes are shown in close-up and the story is easy to follow.

MU-23 WOODWIND CHOIR, THE 11 MINS.

Demonstrates the individual tone quality of the various woodwind instruments and illustrates playing techniques. Compositions include excerpts from the Third Movement of Brahms' "First Symphony", "Midsummer Night's Dream", "William Tell Overture", "Der Freischutz", Beethoven's "Third Symphony", a Schumann piano concerto and the Second Movement of Brahms' "Fourth Symphony".

Physical Education

PE-34 AMERICAN SQUARE DANCE 11 MINS.

Relates the square dance to social dancing, teaches the positions of the dancers in relation to the calls and defines terms. We are shown (1) the Swing, (2) the Alemande, (3) the Grand Right and Left, (4) the Promenade, (5) Promenade the Outside Ring, (6) Right and Left Through and Back, (7) Two Ladies Chain and Back, (8) Four Hands Up and Half Around, and (9) Do-si-do. There is ample review of these fundamentals, and the film closes with a sequence of "Take a Little Peek", for review and motivation.

PE-1 ANALYSIS OF AGILITY EXERCISES 11 MINS.

This film gives an analysis of a selection of jumps, vaults, and agilities. These scenes are illustrated by views of class work and by close-up and slow motion photography of individual boys and girls. Fundamental movements have been selected and the various leading-up stages are depicted.

PE-42 ARCHERY FOR GIRLS 11 MINS.

With experts demonstrating, this film shows and explains the fundamental techniques of shooting: proper stance, nocking the arrow, the draw, the aim, and the loose. Stressing relaxation and practice, it is popular with beginners and experts alike.

PE-51 BADMINTON FUNDAMENTALS 11 MINS.
(Outdoor Play)

Fundamental skills and rules of badminton are demonstrated in this film by both novice and expert players. Slow-motion sequences and animation are used to make clear the techniques of this popular game. Scenes of expert professional play provide motivation for further study.

PE-71 BADMINTON, FUNDAMENTALS OF 11 MINS.
(Indoor Play)

This film demonstrates and analyzes the correct body movements of badminton fundamentals. It also shows actual team play in which the fundamentals are emphasized.

PE-5 BASEBALL, CATCHING IN 11 MINS.

Essential catching skills are illustrated. The points covered are stance, footwork, signals, catching high fouls, fielding bunts and backing up first base.

PE-88 BASKETBALL FOR BOYS: FUNDAMENTALS 11 MINS.

These basic basketball skills are carefully presented: Footwork . . . ready position, starts (quick, fake step), stop-pivot and turn, change in direction, defensive footwork, rebounding. Ball handling . . . passing-receiving (chest, baseball, bounce passes), dribbling, shooting (lay-in or hole, one-hand push, pump shots). Useful up to, and including, grade ten.

PE-89 BASKETBALL FOR BOYS: TEAMPLAY 11 MINS.

Five-man offense starts with one- and two-man action and concludes with a set play based upon these actions. Defensive play progresses from the defensive triangle to full team co-operation. Fundamental units of play are illustrated. This film is primarily a coaching aid for intermediate and senior grades.

PE-43 BASKETBALL FOR GIRLS 11 MINS.
(Fundamental Techniques)

Combining fast action, slow motion photography, skilful players, and sound basketball knowledge, this film demonstrates fundamental techniques of ball handling, passing, and shooting. It emphasizes the value of practice and the importance of individual skill to team success.

PE-44 BASKETBALL FOR GIRLS 11 MINS.
(Game Play)
The finer points of this sport are demonstrated here. Individual player techniques in offence and defence are shown: pivoting, feinting, passing, screening, shooting, handling rebounds.

PE-72 BASKETBALL FOR MILLIONS 30 MINS.
Scenes show: accepted officiating procedures; problems created by double fouls and false double fouls; tricky plays connected with front and back courts; jump ball infractions; and procedures; distinction between player and team control; and a panorama of basic fundamentals.

PE-3 BASKETBALL FUNDAMENTALS 16 MINS.
Deals with basketball skills and teaching procedures. Slow motion photography is used to break down the various techniques — proper stance, holding the ball, basket shooting, defensive play and teamwork—into easily grasped essentials.

PE-73 DANCE YOUR OWN WAY (Colour) 10 MINS.
This film follows a group of children through a creative dancing class. It opens up new areas in the exploration of children's emotions and creative urges. Children, under their teacher's guidance, are led to express themselves freely through the dance medium.

PE-89 DEVELOPMENT OF MOVEMENT: THEMES AND GYMNASIUM 22 MINS.
Bedford College students show work on balance, elevation, full use of apparatus and advanced ideas. Partner co-operation, moving apparatus and restricted space situations are developed.

PE-7 DISTANCE RACES 11 MINS.
Includes races from 1,000 to 10,000 meters and the steeplechase. Styles are contrasted and differences in physiques are shown. Slow motion is extensively used.

PE-69 EXPLORING YOUR GROWTH (Colour) 11 MINS.
Using simple animation and fascinating photomicrography, the film explores the wonderful process that makes us grow. It explains how food is digested in the mouth, stomach and intestine; how the digested food is carried by the blood from the intestine to the cells of the body; how food allows cells to grow and divide, causing us to grow.

PE-45 FOOTBALL, ASSOCIATION 11 MINS.
(Methods of Coaching Soccer)
Deals with the general training, exercise methods, and exercises necessary in order to develop speed and stamina. The film describes the fundamental principles of the game: ball control, passing movements, heading, and shooting.

PE-10 FOOTBALL, BALL HANDLING IN 11 MINS.
Covers the fundamentals of ball handling, i.e., stance, grip, feel of the ball, fingertip control, adjustment before throwing or kicking, receiving passes, catching passes and punts, ways of carrying the ball. Presents interesting game shots to illustrate all points, and uses slow motion and stop motion techniques.

PE-11 FOOTBALL, BLOCKING IN 11 MINS.
Teaches the fundamentals of good blocking: position, speed, drive, follow-through, timing and body control. Describes in detail the shoulder and body blocks, and demonstrates variations of each. The film emphasizes the importance of practice, experience and good physical condition.

PE-12 FOOTBALL, TACKLING IN 11 MINS.
Teaches the fundamentals of good tackling; physical condition, speed, body placement, drive, sure grip, timing and body control. Describes in detail the shoulder and cross body tackles and demonstrates variations of each. Special instructions are given for practising with attention to safety measures.

PE-60 HOCKEY—CHECKING 8 MINS.
Two, and occasionally three, demonstrators show when and how to use a "poke", "hook", "hip", and also how to "cover" a man.

PE-61 HOCKEY—DEFENSIVE TEAMPLAY 11 MINS.
Again, everything from two men to two teams is used to illustrate the principles of defensive action, whether the team is "backchecking", "forechecking", or breaking up an attacking "power play".

PE-62 HOCKEY—GOALTENDING 11 MINS.
A goaltender and several marksmen show us ways in which the goaltender, the most important man on the team, can defend his life and his honour.

PE-63 HOCKEY—OFFENSIVE TEAMPLAY 8 MINS.
Everything from two men to two entire teams is used to illustrate methods by which an attacking team can clear the puck out of their own end, by-pass defencemen, get into scoring position, and eventually, perhaps, beat the goaltender.

PE-64 HOCKEY—PASSING 11 MINS.
Two demonstrators show the techniques involved in passing the puck between players both stationary and on the move.

PE-65 HOCKEY—SHOOTING 11 MINS.
Demonstrators show us the techniques involved in executing various types of shots such as the "forehand", "backhand" and "slap". Attention is paid to these major target areas around a goaltender.

PE-66 HOCKEY—SKATING 8 MINS.
A demonstrator shows the fundamentals of "balance", "stopping", "starting", "turning", and "speed skating".

PE-67 HOCKEY—STICKHANDLING 8 MINS.
A demonstrator illustrates the correct method of holding and manipulating the stick in order to control the puck. With the aid of another demonstrator we are shown how to stickhandle around an opponent.

PE-76 LAWN TENNIS—INSTRUCTION AT WIMBLEDON—PART I 20 MINS.
A film in two parts which demonstrates the strategy and strokes of tennis. Dan Maskell, training manager of the British Lawn Tennis Association, gives tennis instruction to junior players. His comments on correct methods of play are illustrated by shots at Wimbledon where such players as Angela Mortimer, Althea Gibson, Lew Hoad and Ashley Cooper show these same principles applied in champion tennis.

PE-77 LAWN TENNIS—INSTRUCTION AT WIMBLEDON—PART II 20 MINS.
Advanced techniques, as in Part I.

PE-91 MOVEMENT SPEAKS 18 MINS.
Eleven- and twelve-year-old boys from a mining town school in England develop dance movements and dances. Drama, speech and percussion work is shown.

PE-47 PARADE OF CHAMPIONS (Colour) 22 MINS.
This film explains such basic football plays as the T formation, blocking, running interference and broken field running, as well as highlights of the Grey Cup final of 1949. The camera catches famous players in action at the height of vital plays. It shows Canada's two top teams in all the glamour and drama of the final playoffs.

PE-48 PHYSICAL EDUCATION 11 MINS.
(Rural School—Indoors) (Colour)
This film illustrates the importance of a good physical education programme in a typical Ontario rural school. The possibilities of developing satisfactory physical activities during the winter months are outlined. This film should serve to encourage rural school teachers in the development of an approved programme.

PE-49 PHYSICAL EDUCATION 11 MINS.
(Rural School—Outdoors) (Colour)
This film shows an approved physical education programme for Ontario rural schools. Emphasis has been placed on simple, inexpensive equipment. Proper activities for various age groups are depicted. The role of the teacher in supervision is clearly shown.

PE-18 PHYSICAL TRAINING—GIRLS 22 MINS.
This film presents typical lessons based on running and bounding, skipping and changing formation, head, arm, balance, leg, abdominal and knee exercises as well as trunk bending. The second part presents class activities consisting of marching, cartwheel practice, bounding over ropes and apparatus work.

PE-19 PLAY BASEBALL, SON 16 MINS.
This film shows a group of typical school ball players demonstrating the fundamentals of better baseball. Illustrates the techniques of hitting, throwing, fielding and pitching.

PE-20 PLAY VOLLEYBALL 22 MINS.
A film demonstration of how volleyball should be played. It shows the game as played by experts and what it is that makes a champion. The highlights of a spirited game in action are depicted and analyzed into patterns of play. Natural speed, slow motion and stop action photography are used to clarify the essentials of good form.

PE-75 PRACTICE MAKES PERFECT (Volleyball) 22 MINS.
This film shows teachers and students in a typical class teaching situation. Fundamentals in drills are demonstrated by expert players in regular speed and slow motion. Action shots reveal the techniques and team strategy used by experienced players or championship teams.

PE-74 READY . . . WRESTLE! 20 MINS.
The value of amateur wrestling in building body, mind, and character is outlined in this film. The history, rules of conduct and emphasis on individual development are seen through the personal experience of a high school student.

PE-39 SKATING, FIGURE 11 MINS.
With inimitable grace and precision, Barbara Ann Scott demonstrates school figures and gives a thrilling display of free skating.

PE-59 SOFTBALL FOR GIRLS 11 MINS.
The fundamental softball skills of throwing, catching, batting and fielding are demonstrated during an actual game. Each player's individual skill and co-ordinated teamplay is pointed out with emphasis on the necessity for intelligent practice.

PE-40 SPEEDBALL FOR GIRLS 11 MINS.
Introduces students to an exciting game which is rapidly growing in popularity. This film lucidly explains players' positions on the field, the rules of the game, techniques in developing team co-operation and individual skills — kicking, juggling, volleying, passing and receiving. From practice suggestions to strategic plays, the basic film makes it easy for students to master the stimulating game of speedball.

PE-23 SWIMMING AND DIVING ACES 11 MINS.
A presentation of skilful divers and swimmers performing graceful and difficult feats. Slow motion shows the twists and turns of the divers in the air and the swimming strokes in the water.

PE-24 SWIMMING—ADVANCED 11 MINS.
Here is instruction for perfecting the style and strokes of the average swimmer. Correction of common faults is included. Proper body alignment, arm action, leg action, breathing and all the "musts" that make for champion swimmers are stressed.

PE-25 SWIMMING—BEGINNERS 11 MINS.
This film gives instruction for swimming, using a ten-year-old as the pupil. Basic fundamentals are given, from the conquest of fear to breathing, kicking, arm strokes, and co-ordinated deep water swimming.

PE-26 SWIMMING TECHNIQUES FOR BOYS 16 MINS.
Illustrates Matt Mann's technique as applied to swimming instruction in a small group. The crawl, back stroke, breast, and butterfly strokes are illustrated separately, from the beginning land drills to the complete stroke. Slow motion adds to the instructional value.

PE-28 TENNIS—ADVANCED 11 MINS.
In this film Bill Tilden takes us past the fundamentals to advanced techniques of tennis. Tilden himself demonstrates net game, footwork, smash, service, and volley. Front, side, back, and overhead views allow study from every angle.

PE-78 TENNIS, BEGINNING 15 MINS.
Fundamental techniques of tennis are demonstrated by Carmack Berryman with emphasis on the drive, serve, volley and smash. This film should prove useful for beginners at the game.

PE-85 TISSUES OF THE HUMAN BODY (Colour) 16 MINS.
Graphic animation illustrates the variety of cell specialization in man and details the organization of the more important kinds of tissue: protective and secretive epithelium, connective tissue in skin, in tendon and in bone, blood considered as a tissue, muscle tissue, and nerve tissue. The life processes of the one celled organism are compared with those of the human body.

PE-56 TRACK AND FIELD, FUNDAMENTALS OF 26 MINS.
The combination of the inspirational aspects of actual competitive and practice performances by this great champion, Bob Mathias, plus his repeated demonstrations of good form in every basic track and field event makes the film an invaluable and practical aid to the track coach.

TRACK AND FIELD SERIES

These films were made at Yale University, under the direction of Dr. Frank Ryan, Field Events Coach. Excellent for use of coaches, especially in competitive sport at the senior high school and college level. They deal with those fundamentals that have been found of great importance in the last few years, as well as good training methods and auxiliary conditioning. Emphasis is on coaching rather than on instruction.

PE-79 TRACK AND FIELD: BROAD JUMP 14 MINS.
PE-80 TRACK AND FIELD: DISCUS 14 MINS.
PE-81 TRACK AND FIELD: HIGH JUMP 14 MINS.
PE-82 TRACK AND FIELD: HURDLES 14 MINS.
PE-83 TRACK AND FIELD: POLE VAULT 14 MINS.
PE-84 TRACK AND FIELD: SHOT PUT 14 MINS.

PE-92 TRAMPOLINE FUNDAMENTALS (Colour) 11 MINS.

An instructor and a group of high school boys and girls demonstrate the basic fundamentals of trampolining. Shown in detail are the landing positions, aerial positions, front and back flips (with spotters), and combinations of these fundamentals which lead to a variety of stunts for the advancing student. Stressed are the importance of safety measures and the need to practice each step until it is thoroughly learned.

PE-31 TUMBLING—ADVANCED 11 MINS.

Based on skills acquired by perfecting stunts demonstrated in previous films in the series, this film teaches the more difficult stunts. These include low arm to arm balance, snap arm to arm balance, high arm to arm balance, backward handspring, side leg pitch, backward somersault, toe pitch, toe pitch forward somersault, and others, including combinations.

PE-41 TUMBLING—BEGINNERS 11 MINS.

The film makes a complete presentation of the two basic progressions in this sport — the inverted balance and roll progressions. Excellent demonstrations of flips, rolls, stands, etc., singly and in combination, give students the foundation for performing each stunt.

PE-30 TUMBLING—INTERMEDIATE 11 MINS.

This film demonstrates stunts such as the kip, rolling kip, headspring, handspring, thigh stand, knee stand, shoulder mount, shoulder dive, lift and toss, back to back pullover, back to back and over, knee shoulder stand, knee shoulder spring, back over neck, back over feet, front over neck, foot to pelvis somersault, and handspring over back.

PE-86 VOLLEYBALL DRILLS (Colour) 18 MINS.
Methods for improving the fundamental techniques of volleyball are demonstrated. Drill practice in serving, receiving, setting, spiking and blocking is shown as the players advance from elementary to advanced stages, mastering various types of each skill.

PE-33 VOLLEYBALL FOR BOYS 11 MINS.
This film is planned to benefit both the beginner and the more advanced player. How to serve, volley, and spike the ball, with methods of defensive play, are covered by regular and slow-motion photography.

PE-68 VOLLEYBALL FOR GIRLS: Techniques 11 MINS.
Animation and slow motion photography are used here to analyze volleyball techniques and demonstrate a variety of playing skills.

PE-87 VOLLEYBALL SKILLS (Colour) 18 MINS.
This film emphasizes both individual and team fundamentals of volleyball, and shows the need for good co-ordination, timing, etc. Demonstrations illustrate the actual use of the various types of serving, passing, spiking and blocking.

PE-32 WEIGHT EVENTS 11 MINS.
Demonstration of the shot put, discus throw, hammer throw, and javelin. General poise, method of holding, and leg action are illustrated by slow motion and repetition. Different styles are demonstrated.

PE-93 WEIGHT TRAINING—BASIC EXERCISES (Colour) 11 MINS.
Techniques for the nine basic exercises are designed to cover all the major muscle groups of the body. This film demonstrates these exercises for the beginner, the advanced student, and the specialized athlete.

PE-95 WRESTLING: BREAKDOWNS INTO PINNING COMBINATIONS 11 MINS.
A companion film of "Escapes and Reversals", it demonstrates the following breakdowns: far ankle-near arm, near ankle-far arm, head lever, two-on-one bar arm, far ankle-waist to over and under, near ankle-cross face to a double arm tie-up. The basic techniques are very well presented.

PE-94 WRESTLING: ESCAPES AND REVERSALS 11 MINS.
Featuring two former Illinois State High School champions, this film demonstrates the tripod and long sit-out, short sit-outs, power sit-outs, and the inside foot stand-up. Reversals are taken up in detail beginning with the outside switch and proceeding to the

inside switch, the outside roll and finally the inside roll. Good teaching procedures and sequences are incorporated by use of slow motion photography.

Science — Agriculture

SA-1 ANIMALS OF THE FARM (Colour) 11 MINS.
The physical appearance and habits of the common animals of the farm: chickens, ducks, turkeys, pigs, cows, sheep, and horses. Material is presented slowly in order to give young children plenty of time to watch each animal in detail.

SA-17 APPLES (Colour) 11 MINS.
The story of apples from seedling to market. Planting, grafting, pruning, irrigation, pollination of blossoms, dusting, spraying, thinning, picking, and marketing are shown.

SA-22 CORN FARMER, THE (Colour) 14 MINS.
The film describes the life and work of a family living on a corn farm. The student sees that the modern corn farmer makes the fullest use possible of modern machinery to produce record corn yields from his land. Shows the interrelation between raising corn and feeding livestock and stresses the point that many corn farmers are also stock raisers.

SA-3 DAIRY FARM (Colour) 16 MINS.
The economic and social importance of the dairy farm is portrayed by a visit to a typical Midwest farm. We see the farmer engaged in his chores of caring for his cattle, milking, and preparing the milk for market. Scenes also depict the farmer busy at seasonal operations such as cultivating, haying, and silo filling.

SA-4 DAY AT THE FAIR 11 MINS.
This film outlines the interesting features of a country fair. Farm children prepare to exhibit their calves and pigs. Sequences include inspection of various exhibits, judging procedures, midway amusements, horse racing, 4H Club activities, and show ring techniques.

SA-20 EGGS 11 MINS.
The story of egg production on a large, commercial egg farm, illustrating the efficiency of modern, up-to-date methods is depicted, with emphasis on the care given to hens in clean and scientifically regulated laying houses.

SA-5 FARM ANIMALS 11 MINS.
A typical day on a farm, showing the farmer tending cows, horses, pigs, goats, and sheep.

SA-23 FARM CALENDAR 44 MINS.

A general picture of farming in eastern Canada and of the many activities that form the pattern of rural life. Donald Sloane, a quiet-spoken Ontario farmer, works 150 acres of land with the help of a Dutch immigrant. The camera records the changing tempo of seasonal work as the months pass by, and the compensations of the resourceful, wholesome life on the land enjoyed by Sloane and his family.

SA-15 FARM FORESTRY (Colour) 11 MINS.

To show that farm woodlots can be managed profitably, methods of selective cutting, pruning, measurement, and sale are portrayed.

SA-9 IRRIGATION FARMING 11 MINS.

This film shows man's ingenuity in using the resources of nature to make usable and profitable a land otherwise incapable of supporting vegetation. Various methods of irrigation such as the pipe, the canvas, and the ditch methods are shown.

SA-18 MORE POWER TO THE FARMER (Colour) 22 MINS.

The various uses of electricity on a modern farm are clearly illustrated in this Ontario Hydro-Electric Power Commission film. Excellent suggestions for planning the wiring installation, and the value of the service that hydro makes possible to both the farmer and his wife, are included.

SA-12 PIG TALES (Colour) 11 MINS.

A film which illustrates the raising of pigs on a typical American farm. This film should prove particularly useful for showing in rural schools.

SA-13 POULTRY ON THE FARM 11 MINS.

Shows appearance and habits of young and full-grown chickens, ducks, geese, and turkeys. Incubation, feeding, and raising of poultry are illustrated.

SA-7 PRIDE, THE SADDLE HORSE 11 MINS.

A breeding farm for show horses is photographed. The raising, training, and showing of thoroughbred horses are made into an interesting story. The film concludes with the presentation of a horse show at a County Fair.

SA-24 REVOLUTION ON THE LAND 30 MINS.

Vertical integration is a new term in Canadian agriculture. What does it mean? How will it affect the farmer? This film delves into its many implications, showing how low prices and high costs are forcing more and more farmers into a type of contract farming where production is largely controlled by a central agency such as a feed company or a packing plant. Arguments for and against are presented in the film by men closely associated with the movement.

SA-21 SCIENCE IN AGRICULTURE 11 MINS.

The soybean is presented as an example of the ever-increasing importance of science and technology in agriculture. We see how science strives, through research, to increase land productivity and to find new industrial uses for farm products. Sequences portray soybean experimentation to discover best variety; cultivation of the soybean and harvesting by the farmer; extraction of oil; and finally, research to develop additional soybean products.

SA-16 TREES, RETURN OF THE (Colour) 22 MINS.

This film shows the results of destructive erosion in a farming region in Southeastern Ontario. To replace adequate forest cover, a programme of planting is organized and undertaken. The beneficial results are pictured.

SA-14 VEGETABLE INSECTS (Colour) 22 MINS.

A study of several vegetable insects together with measures for their control. Among the garden pests shown are the potato beetles, caterpillars, aphids, cutworms, squash bugs, corn ear worms, and root maggots. Close-up shots reveal not only their eating habits but also their striking colour and markings. In each case, the characteristics that make the insect destructive and those that render it vulnerable are emphasized. Helpful, as well as harmful, insects are dealt with: the praying mantis, the ladybird beetle and others that assist the gardener to protect the vegetables by destroying the pests.

SA-19 WORLD AT YOUR FEET (Colour) 22 MINS.

How our soil world maintains a harmonious balance is shown in highly magnified sequences employing time-lapse photography and photomicrography. The film deals extensively with soil substance, analyzing different types of soil structure and their resistance to varying natural conditions. Suggestions illustrating how man can make his own contributions to the good of the earth are made.

Science — Biology

SB-32 ABOVE THE TIMBERLINE (Colour) 16 MINS.

Earth-rooted, yet cloud-high, mountains excite our imagination and curiosity. Remote and baffling except to the most daring climbers, the high peaks are a world apart where only the most tenacious of living things endure. Forests give way to stunted vegetation and finally to the hardiest of plants adapted to withstand the rigours of bitter cold, glaring sun and tearing wind. The only animals found here are the wild, tough ones such as the mountain goat, elk and bighorn sheep. In true-life colour this film presents an account of life at this specialized level.

SB-47 ADAPTIVE RADIATION—THE MOLLUSKS (Colour) 20 MINS.

Illustrates the principle of adaptive radiation and shows how the typical molluscan characteristics are modified in each of the six classes. Live photography of many species of mollusks, such as chitons, snails, clams and oysters, tooth shells, and the squid, is used to show the ways in which mollusks are adapted to specialized and different ways of life.

SB-97 AMPHIBIAN EMBRYO: FROG AND SALAMANDER (Colour) 16 MINS.

The complex developmental processes by which a single-celled amphibian egg is transformed into a many-celled adult organism are portrayed. Specific stages which are shown are fertilization, cleavage, blastula formation, gastrulation, differentiation of organs and tissues, and hatching.

SB-48 ANGIOSPERMS—THE FLOWERING PLANTS (Colour) 18 MINS.

Describes the structural and reproductive characteristics which distinguish angiosperms from other plants. Animation and time-lapse photography are used to trace the processes of pollination, formation of seeds and fruit, seed dispersal, and plant growth in angiosperms. Illustrates a wide variety of angiosperms, and explains their importance to man.

SB-93 ANIMALS BREATHE IN MANY WAYS (Colour) 11 MINS.

In order to live, animals must breathe. They take in oxygen and get rid of carbon dioxide. Many small animals breathe directly through their body coverings. Most large water-living animals breathe with gills. Adult insects breathe through tubes in the sides of their bodies. Most large land-living animals breathe with lungs.

SB-26 ANIMALS WITH BACKBONES (Colour) 11 MINS.

Through living examples and animation pupils see the basic structural differences between vertebrates and invertebrates. Fishes, amphibians, reptiles, birds, and mammals — the five groups of vertebrates — are seen and the characteristics of each group are emphasized.

SB-38 ARTHROPODS: INSECTS AND THEIR RELATIVES (Colour) 11 MINS.

Through magnified close-ups, and detailed anatomical drawings, the camera reveals the major physical characteristics which identify the arthropods, the largest animal grouping. Examples from each of the four main classifications — myriapods, insects, arachnids, and crustaceans — are compared and studied with reference to their common characteristics, their natural environment, and the ways in which they are helpful and harmful to man.

SB-39 AROUND A BIG LAKE (Colour) 17 MINS.
The film traces the effects of weather through the seasons on the environmental conditions in and around a typical large lake. Particular attention is focussed on adaptations important for survival in the various habitats.

SB-77 BACTERIA (Colour) 19 MINS.
This film demonstrates the basic characteristics of bacteria; their external and internal structures, their manner of feeding, and their reproductive processes. Shows how bacteria are classified, and describes their ecological importance. Photomicrography is used to show cell division and conjugation.

SB-78 BEGINNINGS OF VERTEBRATE LIFE (Colour) 11 MINS.
Pupils are introduced to some of the terms and concepts fundamental to the study of vertebrate embryology. The film develops an understanding of the complex processes by which a one-celled egg becomes a many-celled, highly organized individual.

SB-40 BIOLOGY IN TODAY'S WORLD (Colour) 11 MINS.
This film stresses the growing importance of biological science, and introduces the many kinds of work done by professional biologists in such fields as bacteriology, horticulture, animal husbandry, entomology, and immunology. In the basic areas of food production, food processing and preservation, and in the maintenance of health, the film clearly demonstrates man's dependence on biology.

SB-14 BIOLOGY, INTRODUCTION TO 14 MINS.
This motion picture provides an excellent overview of the field of biology for prospective students and beginners. The film graphically explains the life processes, adaptation, and reproduction; and it depicts ways in which biology is applied to such problems of daily life as combatting disease and controlling insect pests.

SB-49 BLOOD (Colour) 18 MINS.
Describes the circulation of the blood, its composition, and its functions in supporting cell processes. Photomicrography, animation, and demonstrations are used to show blood cell structure and locomotion, the formation of new blood cells, blood circulation and capillary structure and function. The film also explains blood typing and the test for the RH factor.

SB-50 CAVE COMMUNITY (Colour) 13 MINS.
Illustrates how the study of plant and animal life in the unusual and relatively unchanging environment of the cave community

provides biologists with important data for understanding some of the mechanisms of adaptation and evolution of species. Shows the evolutionary and adaptive modifications of cave-dwelling bats, fish, salamanders, and insects.

SB-51 CHICK EMBRYO: FROM PRIMITIVE STREAK TO HATCHING (Colour) 15 MINS.

Demonstrates the development of a chick embryo during incubation and its emergence from the shell. Time-lapse photography and photomicrography are used to show the chief processes in the development of the chick embryo from primitive streak to hatching.

SB-52 COMMUNITY (Colour) 11 MINS.

Introduces the concept of the ecological community. Shows the complex network of interrelationships among a group of plants and animals adapted to the same general physical conditions, and demonstrates that each organism in a community plays a particular role. Food chains and food webs of typical biotic communities are illustrated.

SB-43 CONSERVATION AND BALANCE IN NATURE (Colour) 18 MINS.

An investigation of balance in natural ecological systems as related to the most critical question of our time: "What is man doing to his environment?" The natural world is composed of an infinite variety of situations in which organisms are interrelated. The role of man in changing the existing balance in biological communities is examined critically.

SB-15 CRAYFISH 11 MINS.

The film discusses the crayfish in general terms with more specific treatment of the processes of feeding, digestion, and reproduction, as well as the arterial and nerve systems.

SB-21 CRUSTACEANS (Colour) 14 MINS.

The value of crustaceans as a source of food and livelihood for man is discussed. Descriptions are given of the appearance, habitat, and behaviour of the fairy shrimp, cypies, a crustacean plankton, barnacles, crabs, shrimp lobsters and crayfish.

SB-53 DESERT (Colour) 22 MINS.

Illustrates the interrelationships between plant and animal life and the physical environment of the desert. The geographical locations of desert areas, their ecological conditions, the causes of their formation, and their aridity are shown. Describes the adaptive mechanisms of a wide diversity of plant and animal life to the hot, arid desert environment.

SB-79 DISTRIBUTION OF PLANTS AND ANIMALS (Colour) 16 MINS.

This film defines and illustrates the factors that determine distribution of plants and animals throughout the world, e.g. reproduction, dispersal, climate, adaptability, locomotion, etc.

SB-54 DNA: MOLECULE OF HEREDITY (Colour) 16 MINS.

Dr. George W. Beadle, discoverer of DNA and Nobel prize winner, explains why DNA (deoxyribonucleic acid), a giant molecule of the cell's chromosomes, is the basis of growth and reproduction and the mechanism for transporting hereditary "specifications" from one generation to the next. Illustrated with photomicrography, animation and models.

SB-16 EARTHWORM, THE 11 MINS.

By showing an earthworm being dissected, the muscular, circulatory, nervous, digestive, and reproductive systems are fully illustrated. The complete life cycle of the earthworm is traced through its various stages.

SB-55 ECHINODERMS—SEA STARS AND THEIR RELATIVES (Colour) 17 MINS.

Describes the characteristics of the echinoderm body plan and shows how it is adapted for locomotion, respiration, digestion, and reproduction. Examples of the five classes of echinoderms are shown, and the various stages of reproduction and development are illustrated with live photography and photomicrography.

SB-80 EVOLUTION OF VASCULAR PLANTS— The Fern (Colour) 17 MINS.

Describes the evolution of vascular systems in land plants. Explains the adaptive advantages of vascular systems in land plants, and shows how biologists reconstruct the story of plant evolution by studying fossils and living plants.

SB-56 THE FIRST MANY-CELLED ANIMALS— THE SPONGES (Colour) 17 MINS.

Demonstrates that the sponge represents one development of multicellularity in animals, and shows some of the adaptations of the body plan of this primitive animal. Live photography, animation, photomicrography and laboratory experimentation are used to show life processes and adaptation of sponges to their environment.

SB-81 FISH EMBRYO: FROM FERTILIZATION TO HATCHING (Colour) 12 MINS.

Illustrates how fish eggs are fertilized in a stream, then traces the development of the zygote from the first cell cleavage to the formation of a young fish.

SB-82 FLATWORMS (Colour) 16 MINS.
Introduces the organization and functions of the flatworm body, and illustrates the advance it represents over the more primitive coelenterates. Regeneration demonstrations with planarias illustrate the principles of polarity, anterior-posterior gradient, and dominance.

SB-44 FLORAL CAPERS (Colour) 11 MINS.
The use of time-lapse photography is demonstrated in recording the growth and movements of plants. The effects of light, temperature, and moisture are shown in detail by slow motion on such well known plants as the morning glory, geranium, pansy, and day lily.

SB-57 FUNDAMENTALS OF THE NERVOUS SYSTEM (Colour) 17 MINS.
Illustrates the two major divisions of the nervous system and explains their functions. With live photography, photomicrography, animated drawings and demonstrations, the film shows how the nervous system conveys external information from the sense organs to the brain, co-ordinates the information with present and past experience, and directs muscles and other organs to adaptive behaviour.

SB-58 FUNGI (Colour) 17 MINS.
Demonstrates that fungi are simple plants which are dependent upon other organisms for food. Illustrates how fungi grow and how they get their food. Explains the importance of fungi as a source of food, as agents in food processing, and as a cause of disease in plants and animals.

SB-99 GENE ACTION (Colour) 16 MINS.
As an introduction to the biochemical mechanisms of inheritance, this film describes the genetic material DNA in terms of the model proposed by Watson and Crick, and explains DNA's role as a determinant of cell type. It also shows that recent research in the field of molecular biology has significantly increased our knowledge of genetics and our ability to understand and treat human disorders resulting from defective genes.

SB-12 GIFT OF GREEN, THE (Colour) 16 MINS.
The film shows how dependent we are upon plants, because they have the unique power to make sugar and oxygen from the simple materials, carbon dioxide and water. The subject is attractively presented with pictures of beautiful flowers and plants grown in New York Botanical Gardens.

SB-59 GRASSLANDS (Colour) 17 MINS.
This film illustrates the ecological interrelationships of the grasslands

biome. Shows the locations of the world's grasslands, explains how they may have originated, and describes their importance as food-producing areas. Demonstrates the dependence of animal life on the dominant plants, the perennial grasses, and gives examples of typical food chains.

SB-83 GROWTH OF PLANTS (Colour) 21 MINS.
Illustrates the dynamics of the plant growth process, especially as it affects woody plants, and shows how cell division, elongation, and differentiation contribute to stem and root growth. Explains how materials are dispersed throughout the plant and demonstrates the effects of various stimuli, such as hormones, gravity, and light, on plant growth.

SB-60 GYMNOSPERMS (Colour) 17 MINS.
Demonstrates that gymnosperms are seed plants which bear their seeds on cones. Animation and time-lapse sequences trace the life cycle of the pine through the growth of the pollen and seed cones, pollination, fertilization and germination of seeds. The importance of conifers is illustrated.

SB-41 HIBERNATION AND OTHER FORMS OF DORMANCY (Colour) 11 MINS.
This film provides a remarkable camera study of various animals adjusting to the hardships of their environment during the winter months. As food becomes scarce and temperatures change, some animals, such as the ground squirrel, go into hibernation. Some, like the spadefoot toad, go into a deep sleep called estivation; others, such as the bear and raccoon, merely sleep for long periods of time.

SB-61 HIGH ARCTIC BIOME (Colour) 22 MINS.
Describes the constant struggle of plants and animals for survival in the harsh environment of the high arctic biome. Shows that few species are adapted to live in a region of long, cold and dark winters and short, cool summers. Photographed on the arctic coastal lands of Canada.

SB-27 HOW GREEN PLANTS MAKE AND USE FOOD (Colour) 11 MINS.
Stressing the concept that all living things depend directly or indirectly on food made by green plants, the film shows the factors required by green plants for life and growth: sunlight, carbon dioxide, water, and soluble minerals. Described is the process of photosynthesis, by which chemical compounds are combined and changed within the plant to make food.

SB-94 HOW PINE TREES REPRODUCE (Colour) 11 MINS.
The processes involved in the reproduction of pine trees are examined — the opening mechanism of pine cones, the fertilization of

seed — producing cones by wind-borne pollen from male cones, the dissemination of seeds, and the germination of seeds. The need for continuing research to preserve the pine forests is also stressed.

SB-33 HYDRA 19 MINS.

Reel 1. — A study of hydra in its natural surroundings is followed by an examination of its external features. A transverse section is seen and the structure and reactions of the nematocysts and the two sets of muscle-tails are explained by diagram and actual microphotographs. Symbiotic green algae living within the body are also shown.

Reel 2. — Shows the process of regeneration in a hydra which has been cut in two, together with the manner in which it catches and digests its food, and the processes of both sexual reproduction by means of eggs and sperm, and asexual reproduction by budding.

SB-45 INVERTEBRATES (Colour) 14 MINS.

Following along the seacoast after a storm, the camera first focusses on gelatinous blobs in the sand — which are actually jellyfish, one of the large group of invertebrates. From there, it moves on to illustrate the characteristics of the major phyla in order, according to their structural and functional complexity: protozoa, sponges, coelenterates, worms, echinoderms, mollusks and arthropods.

SB-62 JOINTED-LEGGED ANIMALS— ARTHROPODS (Colour) 17 MINS.

Illustrates the structural and functional characteristics of animals in the phylum Arthropoda, provides examples from each of the five classes, and describes their evolutionary development. The processes of metamorphosis and moulting are illustrated, using photomicrography and time-lapse photography. The economic importance of arthropods to man is discussed.

SB-84 LAWS OF HEREDITY (Colour) 15 MINS.

Demonstrates the mechanisms by which hereditary characteristics are transmitted from one generation to the next, and thereby makes it possible to predict statistically the occurrence of inherited traits. The basic "Laws of Heredity" are formulated, along with the experimental evidence from which they were derived.

SB-34 LET'S LOOK AT WEEDS (Colour) 19 MINS.

During every growing season in Canada millions of acres of farmland and garden plots become a battlefield where weeds try to crowd out cultivated crops. This film provides a detailed study of the ecological aspects of the relationship between weeds and crop plants, showing the life cycle of specific weeds with reference to their susceptibility to cultural and chemical control. New developments in chemical weed killers are shown.

SB-13 LIFE IN A POND (Colour) 11 MINS.
Outstandingly clear colour photography presents pond life in action, showing microscopic animals, food chains, and a variety of plant and animal life, providing examples of important principles of natural science. The film includes sequences showing the underwater history of the dragon-fly, may-fly, mosquito, frog, and fish.

SB-46 LIFE IN THE DECIDUOUS FOREST (Colour) 19 MINS.
Variations in temperature, moisture, and light are followed through seasonal changes in this tree-dominated biological community. Animals, plants, and fungi typical of each of the forest strata are examined in detail: — fungi and beetle larvae of the forest floor, violets of the herbaceous layers, the wood thrush of the shrub stratum, and the oriole of the beech-maple canopy. Special attention is directed toward the plant-based herbivore-carnivore food chains of a forest community, and to the return of a dead tree to forest soil.

SB-42 LIFE IN THE DESERT (Colour) 11 MINS.
Seemingly desolate, the hot dry lands of the West support a variety of plants and animals. There is enough food, water, and safety for living things that are adapted to desert conditions, but the community's survival depends on the balance of nature.

SB-3 LIFE OF A ONE-CELLED ANIMAL 11 MINS.
In this study of a single-celled animal the production of false limbs is shown together with the amoeba pursuing and capturing its prey, ingesting living organisms, and reproducing itself by dividing into two.

SB-85 MEIOSIS: SEX CELL FORMATION (Colour) 16 MINS.
Explains how meiosis occurs in the formation of sex cells. Illustrates the changes in the parent-cell nucleus which result in the creation of two daughter cells, each having half as many chromosomes as the parent cell. Shows how meiosis enables plants and animals to produce offspring with a wide variety of characteristics, and explains the role of meiosis in evolution.

SB-95 METAMORPHOSIS: LIFE STORY OF THE WASP (Colour) 14 MINS.
Outstanding use of microphotography reveals the intricate processes of growth and development of a wasp through early stages and metamorphosis. By means of a tube especially constructed for observation, the camera reveals seldom-seen features of growth and development that normally take place within a cocoon.

SB-29 MICROSCOPIC LIFE 14 MINS.
Microscopic life as commonly found in a jar of ordinary pond water is shown. Plants and animals are identified by name, but in such a way that beginning students need not remember the names. How-

ever, the opportunity is present for advanced students and teachers to learn more about these plants and animals.

SB-63 MITOSIS (Colour) 24 MINS.
This film illustrates the fundamental process of cell division in plant and animal life, and discusses the importance of the mitotic process to the growth and maintenance of an organism. Photomicrography shows the process of cell division actually taking place in a living cell. The effects of chemicals and radiation on dividing cells are demonstrated.

SB-98 NATURAL SELECTION (Colour) 16 MINS.
The role of natural selection in the evolution of living organisms is described; and an explanation of how natural selection operates by the action of selective agents upon variations within a species is given. Several demonstrations which substantiate and clarify the principle of natural selection are included in the film.

SB-4 NERVOUS SYSTEM 11 MINS.
Animated drawings describe the structure and function of the nervous system, including the anatomy of the spinal cord, axones, dendrites, nerve bundles, receptor and effector organs.

SB-86 ORIGINS OF LAND PLANTS—LIVERWORTS AND MOSSES (Colour) 14 MINS.
Traces the evolution of land plants and illustrates the structural characteristics, reproductive processes, and adaptive mechanisms of liverworts and mosses. Shows their relationship to the development of higher land plants. Photomicrography, macrophotography, and animated drawings are used to illustrate the adaptive and reproductive processes.

SB-17 PARAMECIUM 11 MINS.
Features of this one-celled animal are shown — pellicle, cilia, etc. Diagrams illustrate the digestive system and there are demonstrations of the movements of paramecium.

SB-87 PARASITISM (Parasitic Flatworms) (Colour) 16 MINS.
The development of parasitic flatworms is traced, showing several life-cycle stages. Predation, mutualism, internal and external parasitism, are defined and illustrated. The complicated life cycle of the blood flukes — showing both the male and female flukes — is shown; also lung and liver flukes.

SB-88 PHOTOSYNTHESIS (Colour) 21 MINS.
How green plants transform light energy into food by the process of photosynthesis is explained. Laboratory demonstrations are used to show how scientists study the process by which carbon dioxide and water — in the presence of light and chlorophyll — react to produce sugar and release oxygen.

SB-100 PHYSICAL ENVIRONMENT (Colour) 11 MINS.
This film shows some of the ways in which organisms are adapted to the conditions of their physical environment. It demonstrates how various environmental conditions can be measured, and how they are being investigated through laboratory analysis of marine fossils.

SB-89 PLANKTON AND THE OPEN SEA (Colour) 19 MINS.
Demonstrates the importance of the minute plankton organisms to marine food chains. Photomicrography and laboratory experiments show how plankton are studied at sea, in floating laboratories, and in shore-based laboratories.

SB-5 PLANTS, CLIMBING 22 MINS.
A study of climbing plants, including the Bramble and Rose, the leaf-holding Clematis and Canary Creeper, the root-climbing Ivy, and the tendril-climbing Garden Pear, Bell-Flower, and Exploding Cucumber.

SB-6 PLANTS, HOW THEY FEED 11 MINS.
This film is a study of how plants obtain the elements necessary for their existence. Cinemicrography and diagrams illustrate how these elements are absorbed chiefly through roots and leaves. The formation of crystals from concentrated solutions of some of the many substances which plants form is also shown.

SB-18 PLANT SURVIVAL 11 MINS.
By means of close-up photography the film shows the protective devices used in various stages of growth, from the seed to maturity of the plant. How nature protects plants from weather and animals is also shown.

SB-35 PLANTS THAT GROW FROM LEAVES, STEMS AND ROOTS (Colour) 11 MINS.
Many examples clearly illustrate that certain seed-bearing plants can also be grown from leaves, stems and roots by vegetative reproduction. Making use of time-lapse photography and animation, the film shows that plants produced in this way grow faster, have a better chance of surviving, and have the same characteristics as the plants from which the parts were taken.

SB-8 POND LIFE, INTERDEPENDENCE OF 11 MINS.
Shows how plants, bacteria, infusoria, larger pond creatures, and fish, all feed on each other. The film explains the interchange of oxygen and carbon dioxide between the animal and vegetable life in the pond.

SB-101 POPULATION ECOLOGY (Colour) 22 MINS.
Some of the factors which limit the growth of plant and animal populations are examined in their natural environment. Man's

success in shaping his environment has affected the growth rate of human population. Some of the causes of the "population explosion" and the problems related to it are considered.

SB-36 PROJECT MUSKIE (Colour) 14 MINS.
This film shows the research work conducted on eight-week-old maskinonge fry from the time they are transplanted at Nogies Creek until they are adult fish and transplanted to fishing waters. Highlights of the life cycle of the maskinonge are shown by underwater photography which includes many close-up shots of the adult male and female fish.

SB-23 PROTOZOA (Colour) 11 MINS.
This film is an intimate close-up exploration of the world of one-celled animals. It identifies: pseudo-pods, flagelettes, and ciliates, and shows how they move, how they eat, and how they reproduce. It provides striking examples of symbiosis, parasitism, and colonial organizations by means of unique camera techniques.

SB-30 REPRODUCTION IN PLANTS (Colour) 14 MINS.
This film shows the difference between sexual and asexual reproduction of plants. Further explained are the processes involved in each method of reproduction. Self-pollination, cross-pollination, and ways plant strains are improved by selective breeding illustrate applications of principles of plant reproduction.

SB-90 SEA, THE (Colour) 26 MINS.
This film illustrates the interrelationships between living things in the sea, their dependence on each other and on the conditions of the marine environment. Shows the diversity of free-swimming animals and illustrates basic concepts of marine ecology.

SB-64 SEED GERMINATION (Colour) 15 MINS.
Explains how seeds serve plants in reproduction, distribution, and as a device to survive unfavourable climatic periods. Shows how seed germination studies aid biologists in understanding growth, development and metabolism. Illustrates the importance of seeds as a source of food for man. Demonstrations with germinating seeds are shown using time-lapse photography.

SB-65 SEGMENTATION—THE ANNELID WORMS (Colour) 16 MINS.
Describes the structure and functions of the segmented worm body systems, and shows that the segmented annelid worm body plan represents an important evolutionary development. The major classes of the phylum Annelida are illustrated. Animated drawings show the structure and functions of the nervous, digestive and reproductive systems of the earthworm.

SB-10 SELF DEFENCE BY PLANTS 11 MINS.
A study of the various self-protecting characteristics which are found among plants. The early seed case, bud scales, leaf hairs, and other methods of protection used by leaves and flowers against damage by rain and animals are illustrated.

SB-31 SIMPLE PLANTS: ALGAE AND FUNGI (Colour) 14 MINS.
The major characteristics of simple plants and their two subgroups, algae and fungi, are identified. The film clarifies and illustrates a number of important concepts — the contrast between simple and higher plants; the variety of habitats and extensive distribution of simple plants; and the ingenious use to which they have been put by man for raw material and food.

SB-66 SIMPLE PLANTS—THE ALGAE (Colour) 18 MINS.
This film illustrates typical forms of algae, explains their structure, describes their evolutionary development, and shows how algae have adapted to all types of moist environments. The reproductive processes of algae are shown with photomicrography. The importance of algae to aquatic animals and man is explained.

SB-67 SINGLE CELLED ANIMALS—PROTOZOA (Colour) 17 MINS.
Illustrates the characteristics and behaviour of representatives of each class of protozoans, demonstrates the processes of digestion and reproduction in representative protozoans, and discusses theories of protozoan evolution from ancient single-celled plants. Shows the structures which various classes of protozoans use for movements and food-gathering.

SB-68 SOCIAL INSECTS: THE HONEYBEE (Colour) 24 MINS.
Shows that social insects, such as the honeybee, live in colonies and are divided into castes, each of which contributes to the life of the colony. Illustrates the particular adaptation of various castes to reproduction, population control, and food gathering, and shows the metamorphosis of a honeybee from egg to adult. How bees communicate is shown and explained.

SB-19 SPIDERS AND THEIR ALLIES (Arachnids) 11 MINS.
The life cycle, body structure, habitats, and special adaptations are studied by observing the garden spider, water spider and raft spider. Spinning webs, food-getting, coition, spinning cocoons are shown.

SB-24 SPRUCE BOG (Colour) 23 MINS.
This is a description of the conditions under which a spruce bog is formed, with details of the plant types found at successive stages of development from open water to mature spruce forest. Time-lapse

photography illustrates the growth and decay of vegetation preceding the appearance of sphagnum moss which chokes off water to make the floor of the forest. The film discusses the commercial uses of peat extracted from such bogs, and the value of black spruce to Canada's pulp industry.

SB-69 STINGING-CELLED ANIMALS— COELENTERATES (Colour) 17 MINS.
Describes the characteristics of the phylum Coelenterata, describes the typical coelenterate body plan, and provides examples of the three classes of coelenterates. Shows how coelenterates obtain and digest their food, how they reproduce by sexual and asexual processes, and how they move.

SB-70 SUCCESSION—FROM SAND DUNE TO FOREST (Colour) 16 MINS.
Illustrates the process and general principles of ecological succession by which an area slowly and continuously changes until it becomes a stable natural community. This film, photographed in the dunes at the southern end of Lake Michigan, shows one of the earliest and most thoroughly studied examples of this process.

SB-25 SUNFISH, THE 11 MINS.
The life cycle of the sunfish, its activities, and adaptation to its physical and biological environment are portrayed. Clear submarine photography reveals the male constructing the nest, the female laying the eggs, and the process of fertilization. Further sequences depict the male guarding the nest until the eggs hatch and then protecting the developing young fish against predatory hazards.

SB-71 TEMPERATE DECIDUOUS FOREST (Colour) 16 MINS.
Illustrates the complex network of plant and animal relationships that make up the temperate deciduous forest community. Shows typical deciduous forest plants and animals and their adaptations to seasonal change. The full yearly cycle of spring, summer, autumn and winter is shown.

SB-72 TROPICAL RAIN FOREST (Colour) 16 MINS.
This film illustrates the interrelationships between the rich variety of plant and animal life and the warm, humid environment of the tropical rain forest. Shows the layered structure of tropical rain forest vegetation, describes conditions of temperature and rainfall, and provides examples of both typical and rare species of tropical rain forest animal and plant life.

SB-20 TROUT, LIFE CYCLE OF 11 MINS.
The process of fertilization and the development of the germinal disc and yolk-sac are followed by speeded-up photography showing

the formation of the tail, head region, sense organs, gill-clefts, and vascular system. The hatching process is examined in detail.

SB-96 TROUT STREAM (Colour) 10 MINS.
From the rocky bottom of a stream this film brings you a remarkable study of the eastern brook trout, showing on the screen what you would rarely see in actuality: how instinct, like an invisible shield, protects a fish and lets him survive; how the same instinct holds him prisoner of his environment. The spawning of fish, the event of regeneration as eggs are laid, fertilized, and eventually hatch, are shown.

SB-91 WHAT IS A FISH? (Colour) 22 MINS.
Illustrates the major types of fishes. Shows the anatomy of a typical fish and demonstrates characteristic behaviour patterns of various kinds of fishes. Underwater photography is used to reveal behaviour patterns such as commensalism, spawning, predation and territoriality.

SB-92 WHAT IS A MAMMAL? (Colour) 14 MINS.
Demonstrates the basic structural and behavioral characteristics of mammals and describes their successful adaptation to a wide variety of ecological niches. Compares reptilian and mammalian characteristics. Discusses the evolution of mammals, illustrates their variety, and shows their distribution.

SB-73 WHAT IS AN AMPHIBIAN? (Colour) 11 MINS.
Illustrates the body structure and life process of amphibians and shows how they are adapted to live in water and on land. Presents the development of an amphibian from egg to maturity and traces the origin and evolution of the amphibian. Discusses the ways in which the study of amphibians has contributed to man's knowledge of embryology and development.

SB-74 WHAT IS A BIRD? (Colour) 17 MINS.
Describes the ways in which the body structures of birds are adapted for flight, and shows how birds are able to live in a wide variety of environments because of their structural characteristics and behaviour. Illustrates behavioral patterns such as nesting, care of the young and migration. Describes the evolutionary relationships between birds and reptiles.

SB-75 WHAT IS A REPTILE? (Colour) 18 MINS.
This film illustrates representative kinds of the four orders of reptiles and describes their physical characteristics, reproductive processes, and evolutionary development. Discusses reasons for the reptiles' successful evolution and survival — the evolution of the land egg, the waterproof skin, and the improved limbs. Describes the characteristics and behaviour of a wide variety of reptiles.

SB-76 WHAT IS ECOLOGY? (Colour) 11 MINS.
Introduces the study of ecology by illustrating the wide variety of interrelationships between plants, animals, and their environment. Shows how biologists study these interrelationships and explains the importance of such studies to mankind. The major biomes of the world are introduced.

SB-37 WORMS: THE ANNELIDA (Colour) 13 MINS.
Presents a detailed camera study of the four classes of annelid worms, their structure, behaviour, and habitats. Explains processes of locomotion, respiration, digestion, and reproduction, with special attention to the life cycle of the earthworm. Discusses the earthworm's usefulness to man.

Science — Chemistry

SC-1 CATALYSIS 11 MINS.
Presents several factors which may be responsible for catalytic action. The manufacture of rubber and anti-knock gasoline are given as applications of the principle portrayed. The relation of catalysis to plant and animal life is pointed out.

SC-20 CHEMICAL CHANGES (Colour) 12 MINS.
In understandable terms and simple experiments, the film explains some of the chemical changes that are taking place all around us, illustrates the difference between physical and chemical change and demonstrates some of the tests used by chemists in which chemical changes play a part.

SC-2 CHEMISTRY AND A CHANGING WORLD 11 MINS.
This film emphasizes the importance of chemistry in the modern world. It portrays the work of research chemists and chemical engineers.

SC-13 CHEMISTRY, PREFACE TO (Colour) 16 MINS.
Provides a brief description of our chemical heritage including the work of Priestley and Lavoisier. Introduces three basic areas of chemistry — inorganic, organic, and physical — and shows how these lead to widely beneficial applications. Portrays experiments concerning chemical change, electrolysis, conductivity, and analysis, and describes how the work of modern chemists contributes to a higher standard of living.

SC-17 COLLOIDAL STATE, THE (Colour) 16 MINS.

The products of colloidal matter are of major significance in a multitude of chemical processes. This film introduces us to the colloidal state through a series of carefully controlled laboratory experiments and demonstrations. It defines colloids, and their several kinds, shows how they differ from solutions and suspensions, how they may be prepared and destroyed, and points out the many uses of colloids in the chemistry of everyday life.

SC-14 COLLOIDS 11 MINS.

The concepts of colloidal state and examples of different types of colloids are clarified, showing differences between colloids and true solutions. Factors that prevent particle growth and techniques used to coagulate colloids are illustrated. Tyndall effect, Brownian movement, cataphoresis, and the Cottrell process are demonstrated.

SC-3 ELECTROCHEMISTRY 11 MINS.

The electrolysis of water is clearly explained. The reserve of electrolysis as related to the storage battery is illustrated. The film also shows the principles of electroplating and electrolytic refining of copper.

SC-16 FLOWING SOLIDS (Colour) 22 MINS.

Animation and demonstrations explain the "fluidized solids" technique — its principle and its application to the refining process known as fluid catalytic cracking — and its purpose to provide continuing supply of oil and gasoline, synthetic fibres and other products.

SC-9 HALOGENS (Colour) 11 MINS.

Laboratory demonstration and lecture technique are combined to present the members of this group — fluorine, chlorine, bromine and iodine — free and in compounds. The film treats their physical properties, chemical properties, and important halogen compounds. The slow motion camera records the experiments at a speed that enables the student to see and understand what is happening.

SC-18 IONIZATION, PRINCIPLES OF (Colour) 13 MINS.

The effects of different types of solutes on the boiling point of water are shown; next, the electrical conductivity or lack of conductivity of these solutions is demonstrated, and the results are correlated. The importance of the choice of solvent is shown. Ion migration during electrolysis is demonstrated, using a solution containing a mixture of copper sulphate and potassium dichromate.

SC-4 MOLECULAR THEORY OF MATTER 11 MINS.

The theory of molecular activity in gases, liquids, and solids is presented. Animation explains the diffusion of gases, evaporation of liquids, and the transformation of liquids into solids.

SC-21 NITROGEN AND LIVING THINGS (Colour) 13½ MINS.
Nitrogen is one of the elements essential for plant growth, although most plants cannot take nitrogen from the air; their supply must come from nitrogen compounds in the soil. The various processes in nature of the formation of these nitrogen compounds are demonstrated. Man and animals must depend on plant life for their supply of essential nitrogen.

SC-5 OXIDATION AND REDUCTION 11 MINS.
The oxygen theory of combustion is developed experimentally. The operation of a blast furnace and the process of thermite welding are demonstrated. Every-day examples of oxidation and reduction are shown.

SC-10 OXYGEN 11 MINS.
For introductory chemistry this film surveys the properties and characteristics of oxygen and some of its more important compounds. The film assists the pupils in acquiring knowledge of the preparation and uses of oxygen, and of its significance to man.

SC-11 SOAP 11 MINS.
This film was planned to explain the principles of soap-making, to demonstrate the action of soap upon dirt in the cleaning process, to teach the meaning of saponification and to provide an understanding of how mass production methods are used to make soap.

SC-22 STORY OF HEAT (Colour) 15 MINS.
A camping trip serves to introduce a study of the basic sources and properties of heat, and the harnessing of heat energy to serve man. Vivid, live, dramatic and animated sequences illustrate such terms as friction, kindling point, motion of molecules, radiation, conduction, and convection. Latest application of the basic scientific principles of heat energy in an atomic power plant and nuclear submarine are also shown.

SC-12 SYNTHETIC FIBRES 14 MINS.
(Nylon and Rayon)
The story of the making of rayon and nylon from the raw materials through to the finished yarn ready to be woven into cloth is told in this film. An interesting sequence also shows the knitting of nylon into women's hose.

SC-15 USING THE LABORATORY 11 MINS.
(Chemistry and Physics)
This film shows scientific techniques and attitudes, as well as safety practices, as a high school student investigates and solves a problem. In performing a gas generating experiment, he puts together and demonstrates the use of common laboratory equipment.

SC-7 WATER, MYSTERIES OF 11 MINS.

This film opens by showing the chemical composition of water and uses of the gases that make up the compound. The remainder of the film is divided into three illustrated parts as follows: water is life, water is power, and water is nature's sculptor. It contains an excellent animation of the water cycle.

SC-8 WATER, PROPERTIES OF (Colour) 11 MINS.

This most familiar of all compounds is minutely examined in this film, and its most important physical and chemical properties noted. The film includes demonstrations of electrolysis, boiling, evaporation, condensation, saturation, crystallization, etc. Water is shown as a standard weight in the metric system and specific gravity is explained. Students are urged to use information learned in the film as the basis for further experimentation.

SC-19 WORLD OF MOLECULES, THE (Colour) 11 MINS.

An introduction to the strange and invisible world that gives us some understanding of why solids, liquids and gases are what they are. The experiments of two children aided by animation help to visualize the size of molecules, the way they move in a solid, a liquid and a gas, the way they pull each other and the way changes of state occur.

Chemistry

C-1 INTRODUCTION (Colour)

All the things one sees around him are chemicals and most of the changes in them involve chemical reactions. Some familiar reactions are shown in the film as examples.

C-2 CLASSIFYING MATTER—THE NEED (Colour)

The film shows the mixed-up character of natural materials and the spontaneous tendency of things to get mixed. The film shows various ways of classifying a list of things or a group of objects and it shows that no way is perfect.

C-3 THE PHYSICAL STATES OF MATTER (Colour)

One way to classify substances is as solid, liquid, or gas. Ice is used to illustrate the solid phase; water, the liquid phase, and steam (without any fog) the gas phase. The centigrade and Fahrenheit temperature scales are illustrated.

C-4 CLASSIFYING MATTER—A METHOD (Colour)

The substances in nature are usually heterogeneous. Heterogeneous systems can often be separated into homogeneous parts by simple means, such as sorting, dissolving and filtering, and distilling. The film depicts these and other ways of classifying matter.

C-5 ATOMS AND MOLECULES (Colour)

Ways of distinguishing experimentally between heterogeneous systems and homogeneous systems, and between solutions and pure substances (compounds or elements), are reviewed. The idea of the element is introduced. The idea of the molecule is introduced.

C-6 A CHEMICAL REACTION AND ITS EQUATION (Colour)

The experimental basis for the chemist's system of classification of substances is reviewed and interpreted in terms of the kinds of molecules and atoms present and their distribution in the substances. The distinction between a symbol and a formula is emphasized. The Law of Conservation of Mass is tested.

C-7 COMBUSTION—MOLECULES IN ACTION (Colour)

The writing of chemical equations is reviewed. Chemical equations are developed for several reactions. The reactions include the burning of butane, paper, carbon, kerosene, and alcohol. Animated drawings are used to show molecular motion.

C-8 ATOMS AND THEIR WEIGHTS (Colour)

Atoms are too small to weigh individually on chemical balances but their individual masses can be measured in a mass spectograph. Those atoms deflected least are the heaviest. The kinds of weight units commonly used are reviewed.

C-9 OXYGEN: THE EARTH'S MOST ABUNDANT ELEMENT (Colour)

Our most familiar element, oxygen, is discussed. Some oxygen is prepared from potassium chlorate and the effect of manganese dioxide as a catalyst is shown. Some reactions of the oxygen are also shown.

C-10 MOLECULES AND THEIR WEIGHTS (Colour)

Formula weights (whenever formulas represent molecules) can be calculated simply by adding the symbol weights. Calculations are illustrated for oxygen gas, ozone, water, and methane. The percentage composition is calculated for methane, for nitrous oxide, and for ethyl alcohol.

C-11 WEIGHING—THE ANALYTICAL BALANCE (Colour)

The various parts of the balance are shown and their functions are discussed. A method for weighing accurately is shown. A method of recording the exact weight of the object is shown.

C-12 THE MOLE CONCEPT (Colour)

The concept of mole is introduced. As applied to atoms the mole represents a very large number of atoms, 6.023×10^{23} atoms. This number of atoms is used to define a mole because a sample of oxygen, which contains this many atoms, weighs 16 grams.

C-13 USING THE MOLE CONCEPT (Colour)

The concept of the mole is enlarged to include particles other than the atom. The equation for the reaction between hydrogen and oxygen to form water is discussed. Illustrations are given for calculating the numbers of grams of reacting substances from the numbers of moles of reacting substances.

C-14 THE EMPIRICAL FORMULA OF A COMPOUND: AN EXPERIMENTAL DETERMINATION (Colour)

A weighed piece of silver is placed in a weighed crucible, covered with sulphur, and heated. The sulphur melts and reacts with the silver. More sulphur is added, and the procedure is repeated until a constant is reached. The formula derived is called the empirical formula of the compound.

C-15 BRIEF REVIEW, LESSONS 1-14 AND A FIRST LOOK AT HYDROGEN (Colour)

The results from Lesson 14 are reviewed. The formula obtained for silver sulphide is an empirical formula, not a molecular formula. Ideas and concepts from previous lessons are reviewed. Hydrogen, the lightest element, is then considered.

C-16 MOLE AND WEIGHT RELATIONSHIPS IN CHEMICAL REACTIONS (Colour)

The combustions of ethyl alcohol and ethane are considered. Three-dimensional models of the alcohol are used to show how the atoms are arranged in the alcohol molecule. The structure of alcohol is related to that of water.

C-17 LAWS OF STOICHIOMETRY AND THE ATOMIC THEORY (Colour)

The Laws of Conservation of Mass, of Definite Proportions, of Combining (Reciprocal) Proportions, and of Multiple Proportions are discussed.

C-18 INTRODUCTION TO GAS BEHAVIOUR (Colour)

The assumptions of the kinetic-molecular theory result in a picture of gases which enable us to explain the experimental behaviour of gases.

C-19 GAS PRESSURE: ORIGIN AND MEASUREMENT (Colour)

The variables used for gases are reviewed, but in this lesson pressure and its relation to the number of moles (volume and temperature being kept constant) will be studied particularly. A mercury barometer is shown. A manometer is shown and compared with the barometer.

C-20 PARTIAL PRESSURES; BOYLE'S LAW (Colour)

The students are given a problem in partial pressures to solve. The pressure unit, the atmosphere, is defined. The variation of pressure with volume (at constant temperature and number of moles) is discussed. Some data are obtained experimentally.

C-21 THE "GAS" TEMPERATURE SCALE: ABSOLUTE ZERO (Colour)

The pressure at 100° C is read for a constant number of moles of a gas at constant volume. The gas is then cooled to 27° C, and the pressure is read again. The gas is placed in an ice bath, and the pressure is read again. The best value from many accurate determinations is called absolute zero.

C-22 GAS LAW CALCULATIONS—HOW ERRORS ARISE IN EXPERIMENTS (Colour)

The experimental results of the previous two lessons are reviewed. The relations between pressure and the variables — volume, temperature, and number of moles — are reviewed and new relations are discussed. These relations are applied to a general gas problem.

C-23 SPEEDS OF MOLECULES—GASEOUS DIFFUSION (Colour)

The gas problem considered in Lesson 22 is continued. The experimental effect of temperature on pressure is explained in terms of the movement of the molecules. The speeds of diffusion of hydrogen chloride and ammonia are measured in a tube. The times of escape of oxygen gas and hydrogen gas from a vessel through a small hole are measured.

C-24 STANDARD TEMPERATURE AND PRESSURE—GAS DENSITY AND MOLAR VOLUME (Colour)

The rounding off of numbers is applied to the problem given in Lesson 23. Other items reviewed are diffusion experiments, temperature as a measure of kinetic energy, and the relation of the speeds of molecules at a given temperature to their masses. The common P, V, T, units for gases are reviewed.

C-25 DETERMINATION OF MOLECULAR WEIGHTS OF GASES (Colour)

An experiment is carried out in which the weight of an unknown gas in a flask is compared with the weight of the same flask filled with oxygen. From these weights the molecular weight of the unknown gas can be determined.

C-26 FORMULAS: EMPIRICAL AND MOLECULAR USING MOLAR VOLUMES (Colour)

The experiment in Lesson 25 and its calculations are reviewed. The distinctions made earlier between molecular formulas and empirical formulas are reviewed. Examples are given of different substances with the same empirical formula but different molecular formulas.

C-27 DETERMINATION OF MOLECULAR WEIGHTS OF LIQUIDS AND SOLIDS (Colour)

A known weight of a liquid is evaporated in such a way that the vapour formed displaces a corresponding volume of air. The volume of this air and its temperature and pressure are measured: the volume of displaced air equals the volume of the weighed sample of the unknown as a gas at the same conditions.

C-28 NUMBER-WEIGHT-VOLUME RELATIONSHIPS—A REVIEW (Colour)

In this review lesson several important concepts are reviewed and correlated. Some calculations are made showing how information read from equations can be used to the best advantage.

C-29 A FIRST LOOK AT ATOMIC STRUCTURE (Colour)

The development of ideas about the structure of atoms in terms of the fundamental particles is traced. The results of Rutherford's experiments are reviewed.

C-30 THE NUCLEUS AND THE NEUTRAL ATOM (Colour)

A periodic chart of the elements in introduced. Isotopes are discussed. Ions are discussed in terms of gain of extra electrons or loss of electrons by an atom. A problem on structures of some atoms and ions is assigned to the students.

C-31 ELECTRONIC ARRANGEMENTS—THE INERT GASES (Colour)

The problem assigned in Lesson 30 is solved. The previous lessons on atomic structure are reviewed. The properties of the family of inert gases are correlated to the "magic numbers", $2n^2$, of electrons in each level. The inert gases have no chemical reactions.

C-32 THE FORMATION OF IONIC COMPOUNDS (Colour)

The electron structures of some elements with atomic numbers near those of the inert gases are reviewed. Formation of ionic compounds from atoms of lithium, beryllium oxygen, and hydrogen is illustrated. The students are assigned a problem to work out.

C-33 IONIC COMPOUNDS AND IONIC BINDING (Colour)

Answers are given for the problems assigned in Lesson 32. Differences in energies of reactants and products are found for all reactions. Covalent binding is introduced with the hydrogen-hydrogen bond as an example.

C-34 COVALENT BINDING (Colour)

Ionic binding is reviewed. Covalent binding is described. The dot structures are written for hydrogen, fluorine, hydrogen fluoride, water, and chlorine monofluoride in accordance with the Lewis method. "Dash" structures are also written. A problem is assigned to the students.

C-35 IONIC AND COVALENT BINDING CONTRASTED (Colour)

The problem assigned in Lesson 34 is solved. Covalent binding in a triatomic molecule is illustrated further with hypochlorous acid as the example. The principles of binding, both ionic and covalent, are applied to many examples. Two problems are assigned to the students.

C-36 WATER, ITS STRUCTURE. POLAR MOLECULES (Colour)

Some ionic compounds are reviewed, but the greatest emphasis is on compounds with covalent binding. The structure of water molecules is used as a basis for discussing polar molecules, electrical asymmetry in molecules, and dipoles.

C-37 WATER: SOME OF ITS PROPERTIES (Colour)

Some peculiar properties of water are related to its molecular structure. A vapour pressure of water and the surface tension of water are demonstrated. Water is used without success to put out a magnesium fire. Students are asked to explain.

C-38 WATER; ITS PECULIAR PROPERTIES—TABLE SALT; ITS STRUCTURE (Colour)

Certain facts are related to the organization of water molecules discussed in Lesson 37. The structure of sodium chloride, an ionic solid compound, is examined in some detail.

C-39 IONIC COMPOUNDS AND ELECTRICAL CONDUCTIVITY (Colour)

Conductivity measurements are made for several substances under different conditions. The electron structures of sulphate ion and hydroxide ion are discussed.

C-40 IONIC COMPOUNDS CONTINUED, PRECIPITATION (Colour)

Conductivities of more ionic compounds are tested. New ions included are barium ions, calcium ions, and nitrate ions. The reason is given for using parentheses in such formulas as $Ca(NO_3)_2$ and $Ba(OH)_2$. Two student problems are assigned.

C-41 HOW SALTS DISSOLVE IN WATER (Colour)

The dissolving of salt in water at moderate temperatures is explained in terms of the interactions of the dipolar water molecules with the ions of the salt to form larger ions which are free to move about independently in the solution. Equilibrium is studied with a saturated solution of lead iodide.

C-42 HYDROGEN CHLORIDE. PREPARATION AND PROPERTIES (Colour)

Two methods for preparing gaseous hydrogen chloride are mentioned; one is used to prepare a water solution of hydrogen chloride.

C-43 ACIDS AND BASES. AN INTRODUCTION (Colour)

Seven solutions are tested with respect to taste, feel, and effect on grape juice, tea, litmus paper, "yellow" paper, and magnesium. From the evidence, three of the solutions may be classified as acids, three as bases, and one as neutral. The results are summarized in the form of a chart.

C-44 DEVELOPING AN ACID-BASE THEORY (Colour)

On the basis of the experimental observations made in the preceding lessons, some solutions were classified as acids and others as bases. The observed facts are used to show how a general acid-base theory can be developed.

C-45 A TYPICAL ACID-BASE REACTION—INDICATORS (Colour)

The Bronsted-Lewry theory is reviewed. New terms are introduced. Indicators are used to show how one can tell exactly how much sodium hydroxide solution must be added to a hydrochloric acid solution to neutralize it or how much hydrochloric acid solution must be added to neutralize a sodium hydroxide solution.

C-46 RELATIVE STRENGTHS OF ACIDS AND BASES (Colour)

The problem, "what happens when a hydrochloric acid solution is treated with an excess of sodium hydroxide solution," is discussed. On the basis of experiments involving competition for protons, a table is developed in which acids are listed, ranging from stronger to weaker.

C-47 CONSTRUCTION OF AN ACID-BASE TABLE (Colour)

The behaviour of an acetic acid solution is compared with that of a hydrochloric acid solution. A solution is prepared from an equal number of moles of acetic acid and sodium acetate. Tests are conducted.

C-48 USING AN ACID-BASE TABLE (Colour)

The acid-base tables are extended to include other strong acids with their conjugate bases and other weak acids with their conjugate bases.

C-49 MAKING SOLUTIONS OF KNOWN CONCENTRATION (Colour)

Two methods for expressing concentrations of solutions are discussed: per cent by weight, and molarity. Volumetric flasks of various sizes are shown. A method is shown for preparing more dilute solutions from concentrated ones. Some problems for students are given.

C-50 AN ACID-BASE TITRATION (Colour)

The problems assigned in Lesson 49 are solved. Burets and the techniques for filling and operating are shown. A titration is carried out.

C-51 TITRATION OF A WEAK ACID—CALCULATIONS (Colour)

Sodium hydroxide, standardized in Lesson 50, will be used to determine the concentration of acetic acid in commercial vinegar. In this titration phenolphthalein is used as the indicator. Three problems, based on titration, are solved in detail.

C-52 DYNAMIC EQUILIBRIUM (Colour)

Two examples of equilibrium discussed in earlier lessons are reviewed. Results show that iodine moves from water to a carbon tetrachloride layer and also moves in the reverse direction.

C-53 CHEMICAL EQUILIBRIUM—A TYPICAL WEAK ACID (Colour)

The iodine experiment of Lesson 52 is re-examined after a twenty-four-hour period. The reaction between acetic acid and water is studied as a further example of equilibrium. A solution is prepared so that it is molar in hydrochloric acid and molar in sodium acetate. Again the same equilibrium state is achieved from two directions. A problem is given to the students.

C-54 A SUMMARY OF EQUILIBRIUM PRINCIPLES (Colour)

The various equilibria studied up to now are reviewed in some detail. The factors affecting equilibrium are also reviewed. The known factors are used to make quantitative statements which can be expressed in algebraic form to develop an "equilibrium constant".

C-55 THE LE CHATELIER PRINCIPLE (Colour)

The effects of change in concentration of acetic acid, hydronium ion and acetate ion on the equilibrium between acetic acid and water are shown. Le Chatelier's Principle is applied to the ethyl acetate equilibrium.

C-56 APPLICATIONS OF THE LE CHATELIER PRINCIPLE (Colour)

The principle of Le Chatelier is applied to a general chemical reaction. The importance of temperature in chemical reactions is emphasized.

C-57 THE pH SCALE (Colour)

The ion-product constant for water, Kw, has a value,
$(H_3O^+ \times (OH^-) = 1.0 \times 10^{-14}$ at 25° C.
In pure water
$(H_3O^+) = (OH^-) = 1.0 \times 10^{-7}$.
A solution with these concentrations is called neutral. Facts enable us to set up an acidity scale which is also a basicity scale. The scale, the pH scale, uses the exponents of the H_3O^+ concentration (without the minus sign). pH values are measured on a pH meter for a number of common solutions.

C-58 BUFFER SOLUTIONS REVIEW (Colour)

The pH scale of acidity is reviewed. Typical buffer reactions are shown. Thermo-chemistry is introduced. The calorie and kilocalorie are defined. A calorimeter is shown.

C-59 THERMOCHEMISTRY TEMPERATURE AND REACTION EXTENTS (Colour)

The principle of Le Chatelier is used to show that the heat of reactions enables us to predict how change in temperature produces changes in equilibrium concentrations. Heat effects are demonstrated for the equilibrium between nitrogen dioxide and dinitrogen tetroxide and for the solubility of lead iodide in water.

C-60 RATES OF CHEMICAL REACTIONS (Colour)

The effects of temperature and of particle size are demonstrated for the dissolving of potassium dichromate. The "iodine-clock" reaction is carried out at various temperatures and with various concentrations of reagents and the resulting reaction times are measured.

C-61 TEMPERATURE REACTION RATES AND REACTION EXTENTS (Colour)

The data from the iodine clock experiment are reviewed. A pressure cooker is used to show how higher temperatures, with accompanying higher pressures, can be obtained with boiling water to give faster cooking rates. A reflux condenser for maintaining steady temperatures is shown. A dust explosion demonstrates the effect of large surface on the rate of reaction.

C-62 LABORATORY TECHNIQUES AND APPARATUS—I (Colour)

Demonstrates laboratory techniques — how to light and regulate burners; how to cut and bend glass tubing; how to handle reagent bottles; how to smell gases such as ammonia. Demonstrates that good techniques are more effective as well as safer than poor ones.

C-63 LABORATORY TECHNIQUES AND APPARATUS—II (Colour)

Shows effective and safe ways of using laboratory apparatus including heating of liquids in test tubes, beakers and flasks; methods of evaporation; separation of solids by decanting and filtering, and centrifuging; use of dropping bottles and stirring rods and use of separating funnels.

C-64 COVALENT BINDING—A REVIEW—ITS GEOMETRY (Colour)

The kinds of chemical bonding are reviewed and again related to the position of the bonded atoms in the periodic system. Ionic binding is reviewed briefly but the major emphasis is on covalent binding. Dot structures, "dash" structures, and three-dimensional structures are shown.

C-65 CARBON (Colour)

The structure of the diamond crystal is related to the tetrahedral nature of the carbon atom.

C-66 MULTIPLICITY OF CARBON COMPOUNDS (Colour)

Carbon bonds not formed with other carbon atoms are used to hold other atoms, principally, oxygen, nitrogen, chlorine (and other members of its family) and sulphur.

C-67 GEOMETRY OF CARBON COMPOUNDS—ISOMERISM (Colour)

Two or more compounds may have the same numbers and kinds of atoms per molecule, that is, have the same molecular formula. Such different compounds are called isomers.

C-68 ALKANES—THE SATURATED HYDROCARBONS (Colour)

The series of saturated hydrocarbons, differing by CH_2 in the molecular formula, form a homologous series, the alkanes. The first eight are discussed.

C-69 PETROLEUM (Colour)

The history, uses, and distillation of petroleum are discussed. Fractional distillation is illustrated with the partial separation of an alcohol-water solution.

C-70 GASOLINE AND MOTOR FUELS (Colour)

A scale, called octane number, is used to rate the anti-knock quality of gasolines. Normal heptane is given a rating of zero and iso-octane is given a rating of 100. Additives, such as tetraethyl lead, raise the octane rating of regular gasolines.

C-71 ALKENES AND ALKYNES—THE UNSATURATED HYDROCARBONS (Colour)

If a hydrogen atom is removed from an alkane the remainder (not a stable molecule) is called an alkyl group or radical. Examples are given. Bromine is used to show the existence of unsaturated compounds in gasoline.

C-72 ALCOHOLS (Colour)

The alcohols are related to the hydrocarbons in having a hydroxyl group in place of one of the hydrogen atoms and are related to water in having an alkyl group in place of one of the hydrogen atoms of water. Both are referred to as functional groups.

C-73 COMPOUNDS CONTAINING THE CARBONYL GROUP (Colour)

The types of compounds discussed are: aldehydes, functional group, -ChO; ketones, functional group, CO; carbozylic acids, functional group, -COOH; and esters.

C-74 ORGANIC COMPOUNDS CONTAINING NITROGEN (Colour)

The bonding behaviour of nitrogen in organic compounds is intermediate between that of oxygen and that of carbon. Nitro groups are formed when toluene and phenol are treated with nitric acid to form trinitrotoluene (TNT) and trinitrophenol (picric acid).

C-75 DYES—SOME PRINCIPLES OF ORGANIC SYNTHESIS (Colour)

Structures of sulphanilimide and p-amino benzoic acid are shown. Some general methods are shown. Different products are obtained when ethyl alcohol is treated with sulphuric acid at different temperatures.

C-76 SYNTHETIC POLYMERS I (Colour)

Molecular weights ranging up to ten million atomic weight units have been determined for polymers. Examples of commercial polymers are discussed.

C-77 SYNTHETIC POLYMERS II (Colour)

When a diene is polymerized, the polymers may be more complex because the monomers can add in different ways. Synthetic rubbers are made from diene polymers or co-polymers. Nylon is an example of a co-polymer made by condensation.

C-78 NATURAL POLYMERS—CARBOHYDRATES AND PROTEINS (Colour)

Cellulose and proteins are important natural polymers. Glucose is the monomer of cellulose and of starch. The cellulose polymer may be partially broken down by several methods, formed into various shapes, and then regenerated to produce such commercial polymers as rayon and cellophane.

C-79 BIOCHEMISTRY—A GENERAL VIEW (Colour)
Biochemistry is the chemistry of living things. Fifteen or more elements have been found to be essential in animals and in plants. Water is the most abundant substance, organic material is next, and inorganic material (mostly salts) is least abundant.

C-80 CARBOHYDRATES AND FATS (Colour)
Carbohydrates are classified in terms of complexity. The spinning of a cellulose acetate rayon is shown.

C-81 PROTEINS—ENZYMES (Colour)
Certain proteins have the ability to catalyze chemical reactions — they are called enzymes. The effect of catalase on hydrogen peroxide is demonstrated. Demonstrations of some enzyme reactions include: action of pepsin on egg, action of amylase and the action of yeast on sugar.

C-82 CHEMICAL REACTIONS IN HIGHER PLANTS (Colour)
Plants obtain the elements, carbon, hydrogen, and oxygen, from the air and the soil. The other essential elements are absorbed from the soils as ions in water solution. Experimental studies have shown that the oxygen produced in the photosynthesis reaction comes from the water, not the carbon dioxide.

C-83 CHEMICAL REACTIONS IN THE ANIMAL BODY (Colour)
Animals need pre-formed organic compounds — proteins, carbohydrates, fats, vitamins — as foods. Many of them are insoluble in water and, therefore, need to be transformed into compounds which can be transported to the cells by the blood.

C-84 SOME TYPICAL BIOCHEMICAL LABORATORY TESTS (Colour)
Laboratory tests are used to identify different types of biological material. They include the Molisch test for carbohydrates, the iodine test for starch, the Tollens, Fehling and Benedict tests for sugars, the osazone reaction with sugars, tests for proteins, and tests for fats. An experiment is carried out to show the relation of pH to the action of the enzyme, amylase, on starch.

C-85 STRUCTURAL PROPERTIES OF SIMPLE IONS (Colour)
In very many compounds the atoms are bonded together covalently to form molecules. In many other compounds the bonding is different. Formulas for some compounds are shown.

C-86 REACTIVITIES OF ATOMS AND THE PERIODIC TABLE (Colour)

In Lesson 85 the atoms (and their ions) in two horizontal series in the Periodic Table were compared. In this lesson comparisons are made between atoms (and their ions) in vertical columns of the Table. Some of the effects of amount of charge on ions and on the sizes of ions are shown in the melting points and hardness of ionic compounds. The effects of charge and size are also shown by the work required to remove one or more electrons from sodium magnesium and aluminum.

C-87 A FAMILY OF ELEMENTS—THE ALKALI METALS (Colour)

The alkali metals have similar chemistries but with some differences related to atomic number and size. Some of the reactions of sodium are shown: burning, reaction with water. Reaction of lithium and of potassium with water is also shown.

C-88 THE ALKALI METALS—OXIDATION-REDUCTION (Colour)

Reactions of the alkali metals are studied. The reactions are an example of oxidation-reduction.

C-89 THE ALKALINE EARTH METALS (Colour)

The alkaline earth metals are discussed. The relative sizes of the atoms and ions are given. Molar quantities of the metals are shown. Reaction of IIA elements with oxygen is illustrated by the burning of magnesium and of calcium. Hot magnesium metal is treated with steam. Hydrogen gas and magnesium oxide are formed.

C-90 GROUPS IA AND IIA COMPARED (Colour)

The properties and reactions of Group IA and Group IIA metals are reviewed with special emphasis on similarities and differences between the groups. A problem is given to the students.

C-91 SOLUBLE AND INSOLUBLE SALTS (Colour)

The problem given in the last lesson is discussed and answered. An experiment is carried out to show how barium ions from a barium chloride solution can be removed by sulphate ions from a sodium sulphate solution to form a salt. The reaction between a barium hydroxide solution and a sulphuric acid solution is carried out.

C-92 PRECIPITATION REACTIONS (Colour)

Several precipitation reactions are carried out. For some, the student has enough information to enable him to predict what will happen. A special case is found when calcium ions and sulphate ions are mixed.

C-93 EQUILIBRIUM IN SATURATED SOLUTIONS OF SALTS—CALCIUM CARBONATE (Colour)
Precipitation is studied from the point of view of the equilibrium that exists between a solid and its dissolved ions in water solution. The Le Chatelier principle is used.

C-94 THE CHEMISTRY OF LIME (Colour)
Reactions of oxide ion with water and calcium oxide with water and the decomposition of calcium hydroxide by heat are discussed.

C-95 HARD WATER—ITS FORMATION (Colour)
An experiment is carried out showing that calcium hydroxide in water reacts with carbon dioxide to form a precipitate. The soap test is used to show that much of the hardness of temporary hard water has been removed by boiling.

C-96 HARD WATER—ITS TREATMENT. ION EXCHANGE (Colour)
Temporary hard water may be softened by a base such as sodium hydroxide which neutralizes the bicarbonate ions and forms carbonate ions which then precipitate with the calcium ions present. Phosphate may also be used to remove calcium ions. Another method of softening water is by "ion exchange".

C-97 PRECIPITATION AND INORGANIC SYNTHESIS (Colour)
Some of the principles learned in previous lessons are applied. A method is shown for preparing calcium chloride from calcium nitrate. A precipitate of calcium carbonate is first formed and separated from the remaining solution by filtration.

C-98 WASHING SODA, SOAP AND SYNTHETIC DETERGENTS (Colour)
Reactions of sodium carbonate are discussed. It is used primarily as a source of carbonate ion. The carbonate ion may be used to precipitate many cations but it is also a base. The chemistry of soaps in water is parallel to that of sodium carbonate.

C-99 THE CHEMISTRY OF SODIUM BICARBONATE (Colour)
Sodium hydrogen carbonate is another commercial compound made in large quantities. It consists of two kinds of ions: sodium ions or hydrogen carbonate (bicarbonate) ions. Such materials as bicarbonate ions and water molecules which may react either as acids or bases are called "amphoteric" or "amphiprotic".

C-100 THE AMMONIA SODA PROCESS (Colour)
The Solvay process for making sodium bicarbonate and sodium

carbonate is studied as an example of an industrial process using some of the reactions discussed in previous lessons. Some typical industrial plants and operations are shown.

C-101 EXPERIMENTS WITH ACIDIC CATIONS (Colour)

The chemistry of Be^{++} ions, Mg^{++} ions, and Al^{+++} ions is studied and compared with the chemistry of Ca^{++} ions. Differences observed are in taste, pH, reaction with sodium hydroxide and with an excess of sodium hydroxide, reaction with ammonia solution whether in excess or not, and reaction with sodium carbonite and with excess of sodium carbonate.

C-102 INTRODUCTION TO ION HYDRATION (Colour)

In Lesson 101 beryllium, magnesium, and aluminum ions were found to have properties different from those previously found for Group IA ions and none of the Group IIA ions. The special properties such as acidity and information of gelatinous precipitates are related to the small sizes of the ions and to the interaction with water. The hydration of anhydrous, colourless copper sulphate is demonstrated.

C-103 COLORS OF AQUO COMPLEX IONS—CO-ORDINATION NUMBER (Colour)

Some of the effects observed when complex ions are formed in water solution and the behaviour of the complex ions are reviewed.

C-104 RELATING STRUCTURAL AND CHEMICAL PROPERTIES—AN EXAMPLE (Colour)

Effects are illustrated with the isoelectronic ions, Na^{+}, Mg^{++}, and Al^{+++} — as size decreases and charge increases the acidity of the solution increases. The effect of decreasing size of cation is also illustrated for Ca^{++}, Mg^{++}, and Be^{++}. The similar effects of Be^{++} and Al^{+++} ions are explained in terms of their similar charge-size ratios.

C-105 GELATINOUS HYDROXIDES AMPHOTERISM (Colour)

The precipitation of hydrated aluminum hydroxide, previously studied, is explained in terms of an acid-base reaction. Student problem: Explain and write the equation for the reaction between a solution of aluminum chloride and a solution of sodium bicarbonate.

C-106 THE TRANSITION METALS—AN INTRODUCTION (Colour)

The work with aquo complex ions is reviewed. The structures of some of the elements and of their ions are shown.

C-107 EXPERIMENTS WITH SOME TYPICAL TRANSITION METAL IONS (Colour)

Separate solutions of cobalt II, copper II, zinc II and silver I nitrates are examined for colours of the hydrated cations and pH of the solutions. The results are recorded in the form of a table. The reactions of the separate solutions with small amounts of some reagents and with an excess of the reagents are observed.

C-108 SOME COMPLEX IONS OF THE TRANSITION METALS (Colour)

The reactions, observed in the preceding lesson, of concentrated hydrochloric acid on solutions of aquo complex ions are studied in more detail. The hydrated copper hydroxide complex ion is compared with the corresponding aluminum complex ion. The reaction of ammonia on the hydrated complexes of cobalt, zinc, and silver ions is reviewed.

C-109 SOME APPLICATIONS OF COMPLEXING REACTIONS (Colour)

Calcium hydroxide is dissolved by addition of an acid which combines with the hydroxide ion to form water. Sodium thiosulphate is used to "fix" photographic film by dissolving off all undeveloped silver salts. Other complexing reactions are shown.

C-110 SOME ASPECTS OF COMPLEX ION THEORY (Colour)

Examples are given to show that the bonds between the central atom and the groups attached to it cannot be explained by ion-dipole attraction alone, by acid-base reaction alone, or by charge, or charge-size alone. Examples of the geometric shapes of complex ions are given.

C-111 A REVIEW OF VALENCE CONCEPTS—OXIDATION NUMBER (Colour)

The term valence is an old term which has had different meaning at different times. Some examples are given to illustrate the various aspects of valence.

C-112 OXIDATION NUMBER AND THE NAMING OF COMPOUNDS (Colour)

Methods of assigning oxidation numbers for hydrogen and for oxygen in compounds are reviewed and the differences between covalence, co-ordination number, and oxidation number are illustrated. Some rules are given for naming classes of compounds. The international system of indicating the various possible compounds is illustrated for oxides of iron and oxides of chromium.

C-113 AN INTRODUCTION TO OXIDATION AND REDUCTION (Colour)

Electron transfer in oxidation-reduction reactions is in many ways like that of proton transfer in acid-base reactions. There is an analogy between conjugate oxidizing-reducing systems and conjugate acid-base systems.

C-114 BUILDING AN OXIDATION REDUCTION TABLE (Colour)

An oxidation-reduction table is developed on the basis of experimentation. Zinc metal is treated with water, with IM hydrochloric acid solution, with IM sodium chloride solution, and with IM sulphuric acid solution. The results are interpreted and entered in the table.

C-115 A TYPICAL ELECTRIC CELL (Colour)

From the oxidation-reduction table the results of many reactions can be predicted. The predictions can be tested by experiment. The cell used is called a Daniell cell.

C-116 ELECTRIC CELLS AND THE FARADAY LAWS (Colour)

A Daniell cell is constructed. Methods are shown for calculating various quantities of substances produced when various currents flow for various times. The students are presented with a problem.

C-117 EQUIVALENT WEIGHTS OF METALS (Colour)

The reaction between zinc and hydrochloric acid is used to determine the weight of an equivalent of zinc and the charge on the zinc ion. Qualitative experiments are carried out with sodium, magnesium, and aluminum.

C-118 THE LEAD STORAGE BATTERY—THE DRY CELL (Colour)

Two commercial cells, the lead storage cell and the dry cell, are discussed. For the lead storage cell the reducing systems, the oxidizing systems, and the electrodes are described. The reactions occurring when the cell discharges and when the cell is charged are shown.

C-119 SOME CHEMICAL EXPERIMENTS WITH A DANIELL CELL (Colour)

Experiments are carried out on the familiar zinc-copper cell to show the effects of concentration charges.

C-120 OXIDATION-REDUCTION EQUATIONS (Colour)

A quantitative oxidation-reduction is stated. An oxide or hydroxide coating forms and prevents reaction.

C-121 THE COPPER-SILVER ION REACTION—A QUANTITATIVE EXPERIMENT (Colour)

The experiment started in the preceding lesson is completed. A second method of deriving oxidation-reduction equations is illustrated and is shown to give the same net equation as the method of half reactions.

C-122 ELECTROLYSIS I (Colour)

In electrolysis, reactions which do not occur spontaneously can be made to occur by placing the reactants between two electrodes and pumping electrons through the cell. The charging of a lead storage battery is an example.

C-123 ELECTROLYSIS II (Colour)

The problem posed in the preceding lesson is discussed. Commercial electroplating of silver is shown.

C-124 TYPES OF REACTIONS—A SUMMARY AND REVIEW (Colour)

In this lesson many of the chemical reactions already studied are reviewed in terms of types of reaction. Some examples are used to illustrate ideas about classification.

C-125 THE HALOGENS (Colour)

The chemistry of the halogens is studied in a systematic way. Methods for preparing chlorine gas from chloride ions are shown and ways of deriving the equations for the reactions are explained.

C-126 CHLORINE (Colour)

The laboratory preparation of chlorine gas and the bleaching action of chlorine are reviewed. The commercial process for electrolysis of brine is shown. The differences between the properties of chlorine and chloride ions are reviewed.

C-127 FLUORINE, BROMINE AND IODINE (Colour)

Fluorine is commonly found in nature as the fluoride ion in the insoluble salt, calcium fluorite. This salt is a more complex structure than sodium chloride. The structures of these salts are illustrated with crystal models. The commercial production of bromine is shown.

C-128 HALOGEN CHEMISTRY—A SUMMARY (Colour)

The reactions of the halogens and of their compounds may be summarized in terms of types of reactions studied previously. Through covalent bond exchange, each of the halogens may form covalent compounds with the other halogens.

C-129 LABORATORY EXPERIMENTS WITH HALIDE IONS —OBSERVATIONS AND INFERENCES (Colour)

A series of experiments is carried out on the silver and mercury halides. The experiments show that the strength of ammonia, thiosulphate ion, and cyanide ion as complexing agents for silver ion increase in order given. Reactions are carried out to form red mercuric iodide precipitate which dissolves in an excess of mercuric ions or of iodide ions.

C-130 THE SULPHUR FAMILY (Colour)
Several forms of crystalline sulphur are shown. A rubbery form of sulphur is formed by heating liquid sulphur to a high temperature and then chilling it suddenly. Sulphur is found naturally as free sulphur, in gaseous hydrogen sulphide and sulphur dioxide, and more commonly in metallic sulphides.

C-131 HYDROGEN SULPHIDE—METAL SULPHIDES (Colour)
Hydrogen sulphide is a poisonous gas. Its structure is like that of water. Several methods for preparing hydrogen sulphide and some of the properties of hydrogen sulphide are demonstrated.

C-132 SULPHUR OXIDES—SULPHURIC ACID (Colour)
Sulphur dioxide molecules have a bent structure similar to that of ozone. Their electron structure is shown. The operation of a commercial contact process plant is shown. Some of the properties of sulphuric acid are shown.

C-133 NITROGEN—AMMONIA AND NITRIC ACID (Colour)
The nitrogen family Group VA shows the same trends as the sulphur family and the halogen family. Ammonia is made synthetically from nitrogen and hydrogen by the Haber process. The oxidation of ammonia over a hot platinum catalyst yields nitrogen monoxide which can be further oxidized and treated with water to form nitric acid.

C-134 PHOSPHORUS AND ITS COMPOUNDS (Colour)
Phosphorus is the most abundant of the Group VA elements. Elemental phosphorus is prepared at high temperature from calcium phosphate. Other members of the phosphorus family are discussed briefly.

C-135 SILICON, SILICA, AND SILICATES (Colour)
Silicon is the second most abundant element (after oxygen) but in bulk or volume oxygen predominates because its atoms are larger than silicon atoms. Asbestos, mica, talc, and feldspars are discussed as examples of the effect of structure.

C-136 SOME APPLICATIONS OF SILICATE CHEMISTRY (Colour)
The large polymeric groups in quartz and in silicates make them high melting, viscous when liquid, and difficult to crystallize. Some of the special properties of silica gel are shown. The silicones are also described.

C-137 METALS AND METALLURGY I—SOME NATIVE METALS (Colour)

A list of fourteen metals arranged in order of decreasing reactivity is considered first, and organized into three groups; the very reactive metals, the moderately reactive metals, and the least reactive metals. The least reactive metals in the list are considered in this lesson.

C-138 METALS AND METALLURGY II—THE MODERATELY REACTIVE METALS (Colour)

Zinc, iron, tin, and lead are considered briefly, together with copper and mercury from Lesson 137. Electrorefining is illustrated by use of copper.

C-139 METALS AND METALLURGY III—THE VERY REACTIVE METALS (Colour)

Experiments are done to show that amalgam of aluminum reacts quite readily with atmospheric oxygen. A visit is made to an aluminum plant and commercial production shown.

C-140 IRON (Colour)

A series of lessons on the chemistry of iron is begun with this lesson. These will serve as a review of many of the principles of chemistry developed in the course. Loss of magnetism is demonstrated by heating a nail in the field of a permanent magnet. This same effect is demonstrated by heating a spring wire electrically and at the same time the expansion and contraction of the wire is shown at this transition point.

C-141 STEEL—ALLOYS (Colour)

The chemistry of the steel process is described. Alloys may be classified as eutectic, interstitial, substitutional, and compound. All of these types are discussed and the last three illustrated with a model made of close packed spheres.

C-142 IRON—SOLUTION CHEMISTRY I (Colour)

This lesson will begin a discussion of some typical reactions of iron and its ions. The specific reactions will be introduced for the first time but they will involve reaction types and principles already introduced.

C-143 IRON—SOLUTION CHEMISTRY II (Colour)

In the preceding lesson it was shown that iron ions show a "dual personality," undergoing both acid-base and precipitation reactions. In this lesson the study of the reactions of the ions $Fe(H_2O)6^{++}$ and $Fe(H_2O)6^{+++}$ is extended.

C-144 IRON—CORROSION (Colour)

To demonstrate corrosion a series of demonstrations involving iron nails, washers and other hardware which have been allowed to corrode in an agar gel containing phenolphthalein and dissolved potassium ferricyanide, are shown. Effects of greasing iron, plating it with copper or tin, or plating it with zinc are also shown. Galvanic protection of iron is emphasized and demonstrated.

C-145 THE PACKING OF SPHERES—SIMPLE SOLID STRUCTURES (Colour)

Tennis balls are used in this lesson to demonstrate the structural features of the packing of spheres. Two types of closest packing are shown. The structure of some simple salts, ionic compounds of formula MX (e.g., table salt, NaC1) is indicated.

C-146 MEASURING THE SIZE OF A MOLECULE—AN EXPERIMENT (Colour)

In this lesson one of the classical experiments of surface chemistry is demonstrated. The experiment consists of spreading out on the surface of clean water a thin film of the fatty acid, stearic acid. One end of the stearic acid molecule is thought to stick into the water, the rest of the molecule sticking up into the air.

C-147 UNITS, SIGNIFICANT FIGURES—LARGE AND SMALL NUMBERS (Colour)

In this lesson attention will be directed to units, significant figures, and the use of powers of ten in expressing very large or very small numbers. Advantages are pointed out and some examples shown.

C-148 DETERMINING STRUCTURES—A SIMPLE APPROACH (Colour)

One of the striking developments of this century has been the use of x-rays to establish the arrangement of atoms, molecules, and ions in crystals. An analogy in two dimensions is presented in this lesson. A powder camera used in x-ray diffraction studies is shown. The x-ray diffraction patterns for five different substances taken in such a camera are shown. Models of some common atomic and ionic substances are also shown.

C-149 RADIOACTIVITY AND RADIOCHEMISTRY I (Colour)

Some of Becquerel's work and that of the Curies and Rutherford is reviewed. A gas discharge tube is demonstrated. A luminous clock dial and a radioautograph made with it are shown. Two experiments involving radioactive "tracers" are begun. A precipitate of lead iodide, PbI_2, is formed which will be studied in the next lesson.

C-150 RADIOACTIVITY AND RADIOCHEMISTRY II (Colour)

The lead iodide precipitated in the last lesson is filtered, the solid tested with a Geiger counter and found to contain most of the radioactivity. The students are given a problem. Radioactivity, fission, fusion and chemical change are contrasted.

C-151 THE CHEMISTRY OF PHOTOGRAPHY (Colour)

The photographic process is considered in five steps:— preparation of the light-sensitive emulsion, exposure, development, fixing, and printing. An experiment is done in which the developing of a print in a dark room is simulated.

C-152 PLANNING A CAREER—COURSES, COLLEGE, CHEMISTRY (Colour)

This lesson is devoted to encouraging students to prepare themselves for college. Special mention is made of mathematics and foreign language. It is suggested that the student write now to the college of his choice to find their entrance requirements. A typical program in college for the chemistry major is outlined and discussed. A series of publications devoted to careers in science and engineering is shown. A visit is made to the research laboratories of an industrial chemical plant to see a research chemist at work.

C-153 CHEMISTS AT WORK I (Colour)

In this lesson we visit a pilot plant of a major oil company; a chlorine plant, a gas analysis laboratory, a silver plating company, a pharmaceutical house, and a large laboratory operated for the United States Atomic Energy Commission. A plea is made to the student to consider teaching as a career.

C-154 CHEMISTS AT WORK II—SOME SPECIAL INSTRUMENTS (Colour)

This lesson centres around special instruments. The instruments are the electron microscope, the infrared spectrophotometer, the ultracentrifuge, the emission spectrograph, the torsion balance, the recording microphotometer, the high temperature microscope, the Van de Graaff particle accelerator, the nuclear magnetic resonance apparatus. The student is encouraged to investigate further, any of these instruments of interest to him.

C-155 COLLOIDS (Colour)

The types of colloidal systems considered in this lesson are sols, emulsions, gels, and aerosols. The student is given the problem of calculating the tremendous increase in surface when a cube, one centimetre on an edge, is cut a million times in each of the three dimensions, giving particles of colloidal size. As a demonstration of a large surface, foam is prepared and used to smother an organic chemical fire which is not extinguished by water.

C-156 QUALITATIVE ANALYSIS I—INTRODUCTION, TESTS (Colour)
This lesson begins a series of four lessons devoted to some aspects of qualitative analysis. They are meant to be a review of the kinds of chemical reactions studied in the course, with some specific applications being pointed out.

C-157 QUALITATIVE ANALYSIS II—SEPARATIONS (Colour)
In making tests the chemist is especially interested in precipitates from solution and colours or colour changes for these are easily observed. The student is given a problem in deduction from observations.

C-158 QUALITATIVE ANALYSIS III—LEAD (I) SILVER (I) AND MERCURY (I) IONS (Colour)
If one wishes to analyze for a large number of ions he must proceed in a carefully worked out systematic fashion. The chloride ion will precipitate lead (II), silver (I), and mercury (I) as chlorides. The experimental part of the lesson is devoted to this so-called Group One. An "unknown" solution is tested for the three ions in Group One, applying the tests developed in the lesson.

C-159 QUALITATIVE ANALYSIS IV—ALUMINUM (III) CHROMIUM (III) AND IRON (III) IONS (Colour)
This final lesson in the series dealing with qualitative analysis will be devoted to a study of selected members of "Group Three" of the traditional qualitative analysis scheme of cation analysis. The selected members are aluminum (III), chromium (III) and iron (III).

C-160 SUMMARY—WHAT OF THE FUTURE? (Colour)
The major principles, ideas and concepts developed during the course are summarized. The main concern of the course has been the fundamental principles of chemistry rather than a comprehensive coverage of facts.

Science — General

SG-55 AIR AROUND US (Colour) 11 MINS.
Designed specifically for use in physical science classes, this film should prove useful for introducing the unit on air.

SG-134 AIR AND WHAT IT DOES (Colour) 11 MINS.
The problem-solving approach to a series of real-life situations gives children an opportunity to "discover" basic concepts about air for themselves. They will learn how it moves, expands or contracts, exerts pressure, why it is essential to living things, and how it is useful in many everyday activities.

SG-85 AIRPLANES: HOW THEY FLY (Colour) 11 MINS.
Exciting sequences of a light airplane in flight and views of a large model aircraft being constructed are used to demonstrate basic concepts of flight. The film takes its audience up for a ride in an airplane and shows how the pilot controls the airplane's flight. Animated drawings show how the passage of air past the wing creates the difference in pressure which lifts the airplane into the air.

SG-33 ATMOSPHERE AND ITS CIRCULATION 11 MINS.
This film reveals the composition of atmosphere and explains pressure and temperature at varying altitudes. It demonstrates how the sun's rays heat the earth's surface unevenly and how this phenomenon combined with the earth's rotation causes air movement. It explains the role of air circulation in creating pressure zones which in turn produce weather and climate.

SG-67 ATMOSPHERIC PRESSURE 11 MINS.
Historic developments in the scientific study of the mechanics of the earth's atmosphere are re-enacted. Classic experiments come to life from the descriptions in original manuscripts.

SG-1 ATMOSPHERE, WORK OF THE 11 MINS.
Shows the work of the atmosphere in erosion, soil transportation, and soil formation. Reveals man's dependence on the atmosphere and the need for soil conservation.

SG-86 BEYOND OUR SOLAR SYSTEM 11 MINS.
Beyond our solar system lie the vast wonders of the universe. Telescopic photographs taken at Mount Wilson and Yerkes observatories and explanatory artwork, help us to understand basic concepts about stars, nebulas, major constellations, and about galaxies beyond our own Milky Way. The film presents a clear, visual impression of the physical characteristics of these bodies, and of their great distance from the earth and from each other.

SG-87 BIG WORLD, THE (Colour) 11 MINS.
Vicky learns about the shape of the earth and the forms of land and water. This film might be used as an introduction to the world globe.

SG-116 BIRTH AND DEATH OF MOUNTAINS (Colour) 11 MINS.

Although mountains appear permanent, they are ever changing. Wind, water, and ice destroy mountains. At the same time, underground forces are constantly at work building mountains up.

SG-56 BLOW, WIND, BLOW 11 MINS.

Here is an exciting and unusual story about wind, as seen through the eyes of Johnny. He learns that the wind can turn windmills, knock down trees, and help to fly kites. From this knowledge Johnny gains a background for understanding stories and poems about the wind.

SG-117 BUILDING A JET PLANE (Colour) 11 MINS.

The film stresses the co-operative effort of the many skilled men and women who work together to build a jet plane. We follow a jet plane from original planning through parts manufacture, subassembly, final assembly, ground testing, and flight testing. Finally, it is sold to an airline company.

SG-118 CAVERNS AND GEYSERS (Colour) 16 MINS.

The film illustrates how underground water is constantly changing our earth, forming both caverns and geysers. The mechanism of cavern and geyser formation is illustrated.

SG-57 CLEAN WATERS (Colour) 22 MINS.

This film portrays the importance of natural waters, and illustrates the danger of pollution to fish, wild life, city water supply systems, recreational facilities, and public health. Proper sewage treatment is explained by animated diagrams.

SG-48 CLOUDS ABOVE, THE 11 MINS.

Filmed examples of cumulus, cirrus, stratus, and nimbus clouds are shown. Explanations are given for evaporation, condensation, and rainfall. Diagrams show what happens when currents of warm, light air move upwards.

SG-119 COMPASS, THE 11 MINS.

In the classroom, the teacher explains the meaning of "direction" and demonstrates the function of the compass. The film then illustrates the practical application of information learned in school, as one of the students puts his knowledge to good use in an emergency.

SG-34 DAY AND NIGHT 11 MINS.

By means of a globe rotating in space the film explains why there is day and night and why the sun appears to rise in the east and set in the west. Causes of the variation in the length of day and night are demonstrated.

SG-120 EARTH IN CHANGE, THE (Colour) 16 MINS.
This film tells the story of the changing land features of our planet. The ways in which ice, wind, and water act to wear away the surface of the earth, and how sedimentation, the action of volcanoes and earth quakes, and other forces help to build it up, are carefully described and illustrated. Scenes of Glacier National Park, Vesuvius and Paricutin volcanoes, and other rich geologic sources throughout the world contribute to a real understanding of the dynamic processes that change the surface of the earth.

SG-3 EARTH IN MOTION 11 MINS.
This film presents the aspects of the earth as a planet. Proof of the earth's sphericity is demonstrated. The daily and yearly rotation is shown. Proof of the earth's revolution about the sun is presented.

SG-5 EARTH, OUR 11 MINS.
An illustration of such natural phenomena of the world as oceans and their currents, coastlines, rivers and lakes, water erosion, river valleys, plains, deserts, and mountains. The economic value of each is illustrated and the chief occupation of most regions is shown.

SG-88 EARTH SATELLITES (Colour) 17 MINS.
Here is a film which explains how man-made satellites stay aloft, describes what we learn from satellites, and suggests some of the things that we may look forward to in the future. While the film is planned primarily for science, it has wide general interest and is especially useful as an assembly-program feature.

SG-89 ELECTRICITY: HOW TO MAKE A CIRCUIT (Colour) 11 MINS.
In this film, three primary-grade children set up a simple telegraph between their house and a tree house in the yard. In order to make the telegraph work properly, the children must learn how electricity does its work. The film stresses the importance of safety in handling any kind of electricity and explains that dry cells are useful for experiments with electricity and circuits because of the relative safety with which they can be handled.

SG-50 ELECTRICITY, MAKING OF 11 MINS.
All of the steps are shown for making a simple generator in the science laboratory at school. The resemblance of large generators to the home-made model is clearly shown.

SG-121 ELECTROMAGNETS (Colour) 11 MINS.
Explains the theory of electromagnetism by means of simple equipment and demonstrations, and shows how the electromagnet is used in the doorbell, the telegraph, and many other everyday applications.

SG-114 ENERGETICALLY YOURS (Colour) 13 MINS.
This is the saga of how man has mastered the world and produced energy for his own needs, from his first use of the plow through to the splitting of the atom. Emphasis is given to the demands for energy, both currently and for future generations.

SG-65 ENERGY FROM THE SUN 11 MINS.
The film begins with an exploratory visit to the sun by means of unique telescopic stop-motion photography, made at the High Altitude Observatory at Climax, Colorado — one of the few places in the world where the sun is constantly observed photographically. Violent eruptions at or near the surface of the sun are photographed.

SG-90 EXPLAINING MATTER: ATOMS AND MOLECULES (Colour) 13 MINS.
This film shows how atoms, nature's building blocks, combine into molecules to form all materials. The film defines and illustrates elements, compounds and mixtures in terms of basic atomic structure, and shows how all matter may be classified into these three groups. Provides a graphic visual introduction to the study of chemistry.

SG-91 EXPLAINING MATTER: MOLECULES IN MOTION 11 MINS.
This film describes the properties of solids, liquids and gases, and shows how change of state is related to the Molecular Theory. It also demonstrates how pressure may be explained by the Molecular Theory. Drawing on experiences familiar to elementary school children, the film provides an unusual illustration of the inductive-reasoning process basic to the scientific method.

SG-92 EXPLORING THE EDGE OF SPACE (Colour) 19 MINS.
A film to help tie the link between scientists and students. This film shows applications of plastic balloon technology to space reconnaissance at one hundred thousand feet.

SG-72 EXPLORING THE NIGHT SKY 11 MINS.
The story of constellations, — how they got their names, nebulae and other star phenomena, the setting and rising of stars and how the stars helped in the making of the calendar, is told by means of animation and special cinema techniques.

SG-58 FACE OF THE EARTH (Colour) 11 MINS.
Dramatically reveals the "wearing down" forces on earth in the action of glaciers, frost, landslides, and running water. In contrast are the "building up" forces demonstrated by volcanic lava and buried sea shell fossils in the rock layers. Portrays the Painted Desert, the Petrified Forest, the Grand Canyon, Zion and Bryce

Canyons as illustrations of spectacular geologic formations resulting from the unceasing war between the forces of nature.

SG-9 FIRE 11 MINS.

The film concerns itself principally with the three essentials of combustion — fuel, oxygen and a kindling temperature which depends upon the kind of fuel involved. Animated drawings illustrate these principles. Illustrates major home fire hazards, shows effective methods of extinguishing fires, and explains why water or a fire-extinguishing material such as carbon tetrachloride smothers a blaze.

SG-122 FIRE SCIENCE 15 MINS.

An introduction to the chemistry of combustion. Visualizes the molecular action of a burning fuel as it releases energy in the form of heat and light. Experiments explain the concepts of fuel, oxidation, kindling temperature and spontaneous combustion. Highlights uses of fire in historical times and today.

SG-123 FIRST MEN INTO SPACE (Colour) 15 MINS.

This film illustrates the problems attending man's survival in outer space. It shows how these space survival problems were scientifically studied and solved in ground laboratories and how the solutions were applied by engineers to the first space capsule. By re-creating with models, animation, and live photography, it shows the first American orbital space flight and how the solutions to the problems of man's survival in outer space have worked out in actual practice.

SG-41 FOREST PRODUCES, THE (Colour) 11 MINS.

Portrays the development by the forest of great life-giving resources. The film pictures the flow of timber from the forest for a multiplicity of uses. It shows that an adequate water supply depends on forests, which also provide the last heritage of natural beauty. Man has the choice of saving the forests or destroying himself.

SG-124 FRICTION AND ITS EFFECTS (Colour) 11 MINS.

Friction can help us or hinder us, depending on how it is used and controlled. We are shown that when objects rub together, friction is produced — a resistance to movement, which causes heat and wear. Illustrated are the effects, uses, and disadvantages of friction, and methods of controlling it.

SG-93 GASOLINE AGE, THE (Colour) 14 MINS.

This film describes the rapid changes that have taken place in transportation since the coming of the automobile. Describes also the growth and decline of railroads, the tremendous expansion of the highway system, and the growing use of air transportation.

SG-11 GEOLOGICAL WORK OF ICE (Colour) 11 MINS.
Combining animated drawings with natural photography, this film explains how ice, through geologic ages, has been a powerful factor in sculpturing the face of the earth. It reveals the tremendous effects of ice on soil and rock as it constantly expands, contracts, and moves. An animation sequence shows how glaciers form, move, and alter surrounding terrain features. The closing scenes trace the advances and retreats of ice sheets on the North American Continent during the latest of the earth's many ice ages.

SG-94 GREAT ESSENTIAL, THE (Colour) 18 MINS.
The construction of a modern oil refinery, the role of engineers in the process of refining, and the importance of oil in modern living are stressed. An excellent sequence shows the process of manufacturing the various products of an oil refinery.

SG-12 GROWTH OF FLOWERS (Colour) 11 MINS.
Superb time-lapse photography presents the budding and opening of flowers in a thrilling manner. We observe the flowers sprouting from the ground, blooming and finally dying. Roses, orchids, jacks-in-the-pulpit, daffodils and iris are used as illustrations.

SG-80 GROWTH OF SEEDS (Colour) 14 MINS.
The sources from which plant seeds are obtained are shown. The film describes the structure of seeds and explains by use of time-lapse photography the processes of germination and plant growth.

SG-135 HEAT AND HOW WE USE IT (Colour) 11 MINS.
Basic understandings about heat are presented: its sources, the ways in which it travels, and its many uses in everyday living. The film explains how heat is reflected or absorbed by various materials; how temperature is measured; and how heat expands things such as metals, liquids, and air.

SG-66 HEAT, LEARNING ABOUT 11 MINS.
This film demonstrates the effects of heat on different kinds of materials, how heat changes the state of matter, and how heat travels. The action of heat upon molecules of solids, liquids, and gases is illustrated. A simple explanation is given for expansion and contraction of materials; the terms "good and poor conductors" are demonstrated in experiments; and visual material explains how heat travels by conduction, convection, and radiation.

SG-60 HELICOPTER (Colour) 11 MINS.
This film presents a straightforward explanation of the principles of helicopter flight, in addition to a survey of its many uses and its potentialities.

SG-68 HOW MANY STARS (Colour) 11 MINS.
New and more efficient tools such as the Hale telescope at Mt. Palomar have helped to answer the question "How Many Stars Are There?" Descriptions are given of our galaxy and the place of the solar system in it.

SG-145 HOW POWER DRIVES MACHINES 11 MINS.
A diary written in the 1850's and a modern jet plane started Bill thinking about the uses of power in the past and present. From the muscle power of the blacksmith to the uses of atomic and solar energy, from the water wheel to the gas turbine, this film surveys the applications of power in driving machines to do work.

SG-95 HOW WE EXPLORE SPACE (Colour) 18 MINS.
Introduces the instruments astronomers use and the methods by which they obtain information about the objects of space. Includes what are, perhaps, the first colour motion pictures ever taken of the planets.

SG-136 HOW WE KNOW THE EARTH'S SHAPE (Colour) 11 MINS.
We use a globe as a model to represent the shape of the earth. But how do we know what the earth's shape really is? The film shows how, during the centuries, man has changed his ideas about what the earth looks like: from flat, to curved, to round, to flattened and bulging, to pear-shaped. Yet a perfectly round globe is still the best model of the shape of the earth.

SG-73 HOW WEATHER HELPS US (Colour) 11 MINS.
How rainy, snowy, windy, and sunny kinds of weather are helpful to people, to plants and to animals is brought to children's attention as the film reviews weather that accompanies the changing seasons. Pupils are also aided in identifying the types of clouds which indicate changes in weather.

SG-61 HOW WEATHER IS FORECAST 11 MINS.
This film shows the actual operation of a weather observation and forecasting station. The instruments used to observe and record weather, the charting of weather maps, and weather forecasting are illustrated. The importance of this forecasting to farmers, pilots, fishermen and inhabitants of flood areas is discussed.

SG-74 LANDS AND WATERS OF OUR EARTH (Colour) 11 MINS.
Jimmy becomes aware of the many kinds of land and water forms on the surface of our earth during a family picnic at a scenic spot. He is able to observe hills, mountains, valleys, rivers, and other geographic features; a picture book helps him understand the relationships among them.

SG-14 LATITUDE AND LONGITUDE 11 MINS.

The subject is introduced by showing how a ship needs some method of stating its position without referring to landmarks. Teaching concepts are clearly illustrated by diagram. The practical usefulness of the material presented is stressed.

SG-75 LEARNING ABOUT ELECTRIC CURRENT 7 MINS.

This film describes the characteristics, uses and dangers of electric current. Circuits, conductors, insulators, fuses, and switches are explained both in animation and in simple demonstrations, and the electricity used in the home is traced back to the generators in a power plant.

SG-96 LEARNING ABOUT LEAVES (Colour) 11 MINS.

This film explains how leaves are important to plants, animals and man. It compares different kinds of leaves — those of many common trees, lawn plants, and evergreens, and shows how leaves are related to other parts of a plant, the stem and roots. The function of green leaves, making and storing foods, and the changes that take place during the different seasons, are clearly illustrated.

SG-125 LEARNING ABOUT LIGHT 8 MINS.

Deals with the fundamental concepts in the study of light such as which objects are luminous; when are objects transparent, translucent, or opaque; what is reflection; and what is refraction.

SG-126 LEARNING ABOUT SOUND 8 MINS.

Whether loud or soft, high or low, sound is made by vibration — of a string, a taut surface or a column of air — and travels in waves. We are aware of sounds because the vibrations reach our ears and the hearing nerves carry their message to the brain.

SG-137 LET'S LEARN TO PREDICT THE WEATHER (Colour) 11 MINS.

Weather facts which pupils can observe for themselves are presented in this film to give a basic understanding of why weather changes take place. The film shows the significance of barometer readings, wind direction, types of clouds, and other interesting observations which will enable pupils to anticipate weather changes.

SG-146 LET'S LOOK AT LEVERS (Colour) 10 MINS.

Shows examples of levers, and illustrates how the lever, a basic machine, helps man to do work beyond his own strength. Some methods of using the lever are shown, such as the lift, pry, hold, pinch and cut, and weigh and measure methods.

SG-97 LIFE IN A CUBIC FOOT OF AIR 11 MINS.

Using a reflective approach, the film explores the life in a cubic foot of air taken from the air around us. Various living forms such as yeast plants, molds, bacteria, amoeba and pollen grains are discovered and examined. Through microscopic views of these plants and animals the viewer learns something of their structure and life processes.

SG-98 LIVING AND NON-LIVING THINGS (Colour) 11 MINS.
Tony learns the five basic differences between living and non-living things. In observing his dog and fish, plants, clouds, rocks, and other phenomena, he recognizes the characteristics of these things which distinguish between the two great groups.

SG-62 LOOK TO THE LAND (Colour) 21 MINS.
This film presents a forceful reminder of our ultimate dependence on our resources of land, forest, and water. The tragic consequences of our neglect of these resources are documented. The film calls attention in animated drawings to carefully made plans of proposed programmes for redevelopment.

SG-99 MAHNOMEN—HARVEST OF THE NORTH (Colour) 16 MINS.
Introduces wild rice as an old Indian legend and describes the area in which it grows, its importance to the Indians, and the tools and techniques of ancient and modern harvesting. Emphasizes the crop as an important economic factor in the transition from the old to the new way of life for the Indians of the North, and views it as a growing food industry in the American market place.

SG-138 MAKING THINGS MOVE (Colour) 11 MINS.
Introduces concepts of force and motion by leading children through a series of practical experiences with objects and machinery on a farm. Shows examples of forces that make things move; forces that keep things from moving; and forces — such as gravity and friction — that make things more difficult to move.

SG-139 MAKING WORK EASIER (Colour) 10 MINS.
Machines, both simple and complex, help man accomplish his daily work. Some simple machines illustrated in the building of a house are: inclined planes, levers, pulleys, wheels and axles.

SG-76 MICHAEL DISCOVERS THE MAGNET 11 MINS.
Using familiar objects in simple experiments at home, Michael learns about magnetism. Then he puts on a show for his friends to demonstrate some of the exciting things that can be done with magnets.

SG-35 MILE BENEATH THE WHEAT, A (Colour) 16 MINS.
This film portrays the discovery and development of the Leduc oil field in Alberta. Clearly defined sequences depict the intense activity

during the early days of the field; rock formations and methods of drilling; spectacular scenes of the burning of waste gases from a new well; building of pipe lines; the change wrought in the community.

SG-81 MINERALS AND ROCKS (Colour) 16 MINS.
The camera follows two young rock collectors as they gather specimens and make standard identification tests, such as colour, streak, hardness, chemical and fracture tests. The film shows how igneous, sedimentary and metamorphic rocks are formed, and explains ways of recognizing each.

SG-100 MOON AND HOW IT AFFECTS US, THE (Colour) 11 MINS.
Telescopic motion pictures and photographs show the seas, craters and mountain ranges of the moon; eclipses, the moon's phases, and their effect on the earth's tides are clearly explained. Information is given of the moon's size, movement, and distance in relation to the earth.

SG-101 MOVING THINGS ON LAND (Colour) 11 MINS.
People have worked at ways to make moving easier and faster. Various methods of reducing friction are shown by the attempt of two children to move a heavy crate.

SG-16 NATURAL RESOURCES, CONSERVATION OF 11 MINS.
Examples are taken from different areas in the United States to show the results of waste in the lumbering industry and agriculture. The effects of erosion by wind and water are illustrated. Steps taken to conserve resources and to check erosion are shown.

SG-63 NATURE'S PLAN (Colour) 16 MINS.
This film describes the water cycle as nature's plan for providing all living things with life-giving water. Natural and time-lapse photography combine with animated drawings to clarify the mechanics of the water cycle.

SG-147 OCEAN CURRENTS (Colour) 17 MINS.
By demonstrations, the differences in densities of hot and cold water, fresh and salt water as causes of convection currents are shown. As a result of currents, the tropics export heat, the poles, cold. Masses of water flow north and south as definite ocean currents. It is pointed out that the actual paths taken are influenced by the Coriolis effect (demonstrated by a ball rolling on a spinning turntable) and further influenced by location and shape of land forms in their paths.

SG-102 OCEAN OF AIR (Colour) 14 MINS.

Using simple tests, the basic principles underlying air weight, air pressure, and composition of the air are developed. The film is also concerned with ways in which air is important in our daily life activities, in protecting us, and in exploration of ocean depths and the regions beyond our earth.

SG-77 OCEAN TIDES (Bay of Fundy) (Colour) 14 MINS.

Animation is used to explain how tides are caused, with pictures of the unusual tides in and near the Bay of Fundy, the forty-foot tides in the Bay, the tidal bore that rushes up the Petitcodiac River, and the reversing falls-rapids of the Saint John River. How tides influence people who live near the ocean is discussed.

SG-103 OSMOSIS (Colour) 16 MINS.

By means of photomicrography, time-lapse photography, and animation, this film illustrates the inner mechanism of plants and explains how water is transported throughout the plant. Laboratory experiments illustrate osmosis action, and the other film techniques support the laboratory experience by explaining the laws of nature that make osmosis work.

SG-42 OUR SOIL RESOURCES 11 MINS.

Animation and live photography are used to show the formation of soil, the factors that lead to the formation of soil zones, the causes of erosion and lack of fertility, and the conservation aspects of soil control.

SG-69 OUR WEATHER 11 MINS.

This film shows how weather affects our lives, what causes the weather, how weather conditions are measured and forecast.

SG-127 OUR WORLD OF SCIENCE 11 MINS.

Explains what science is and how we learn about science. Introduces and defines the words "science" and "experiment", and demonstrates a simple experiment which second graders can do. Develops the idea of an orderly universe and shows a clear-cut working procedure for problem solving in science.

SG-70 PIPES IN THE HOUSE 11 MINS.

The three major utilities — water, fuel and light — are described and how they are made available to the home. A camping trip shows the contrast between primitive facilities and modern ways of turning on a faucet, gas stove or electric lights.

SG-36 POWER, HOW WE GET OUR 11 MINS.

The film shows that all power comes from Nature, and that man must learn how to harness it and put it to use. Sequences deal with the major sources of power: wind, water, fuels, explosives, and the atom. Some applications of each are given.

SG-104 PURE WATER—THE BEST OF GIFTS (Colour) 25 MINS.

The history of water control with its purification, storage, and distribution is outlined in this film. Sequences show the various uses of water in an oil refinery plant. The emphasis that modern industry places on purification and recirculation units receives excellent treatment.

SG-20 RAIN, WHAT MAKES 11 MINS.

In terms suitable for students of the lower elementary school grades, the film introduces and explains the concepts of evaporation and condensation as they apply to the water cycle. Animated drawings summarize the principles involved.

SG-43 RAPE OF THE EARTH 22 MINS.

Soil erosion is a world problem. This film gives in detail the long history of man's plundering of the earth, and of the increase of swelling floods, growing deserts, and dying soil. Measures taken to prevent erosion in many lands are reviewed, and an appeal is expressed for united effort in the work of conservation of our most valuable resource.

SG-105 ROCKETS: HOW THEY WORK (Colour) 16 MINS.

Dramatically presents the basic principles of rocket flight in terms that can be clearly understood by pupils. With animated models and drawings, the film shows how rockets achieve motion and compares rocket power with other types of motive power. Dramatic scenes at a rocket launching site cover the countdown procedure and the take-off of a giant multi-stage rocket. Also demonstrates the functioning of a rocket guidance system. Demonstrates the principles of rocket propulsion, fuels, and rocket engines, multiple-stage rockets, and guidance systems. Gives a clear picture of the basic scientific techniques on which the modern use of rockets is based.

SG-82 ROCKS 11 MINS.

Collecting rocks as a hobby becomes an introduction to the study of geology as a science, and in a few type examples the major earth crust formations are clarified.

SG-115 ROCKS FOR BEGINNERS (Colour) 22 MINS.

Presents the fundamentals of rock classification and explains the origin and characteristics of the different classes of rocks. Relates rock samples to large formations.

SG-106 SATELLITES: STEPPING STONES TO SPACE (Colour) 16 MINS.

Explains what satellites are and why they are important to us. Through an examination of Explorer I, the student is shown the instruments satellites carry and what those instruments tell us about outer space.

SG-64 SCIENTIFIC METHOD, THE (Colour) 11 MINS.

Here is a dramatic exposition of the scientific method of thinking as developed and applied by scientists and as used in the solving of everyday problems concerned with observable facts.

SG-140 SHADOWS ON OUR TURNING EARTH (Colour) 10 MINS.

Shadows are made when objects block light. The surface of the earth, on the side away from the sun, is always in shadow. The movement of the earth, as it turns continuously into and out of its own shadow, produces day and night.

SG-141 SOUND AND HOW IT TRAVELS (Colour) 11 MINS.

This film defines sound, and shows how it is caused through vibrations, as well as how the vibrations travel through air, liquid and solids. Simple demonstrations help to illustrate the differences between sounds — their uses in everyday life, as well as in specialized work.

SG-142 SPACE FLIGHT AROUND THE EARTH, A (Colour) 11 MINS.

As we look at the earth from space, we can actually see its roundness, its oceans, land and the air around it. We can see what causes night and day as we move through the earth's shadow toward the sunrise. Through unusual and beautiful photography, we go along with John Glenn on his historic flight.

SG-148 SPACE SCIENCE: THE PLANETS (Colour) 16 MINS.

Information is presented by means of telescope and observatory pictures. Animation is combined with other facilities to clarify the images and motion of the planets. Observations include the results of studies concerning the atmosphere, temperature and distances.

SG-38 STEAM ENGINE: HOW IT WORKS 11 MINS.

Using animated drawings, the film traces the history of the steam engine from the second century B.C. Experiments that show the physical properties of steam, and an appraisal of the work of Newcomen and Watt, provide a good insight into how the power of steam can be translated into motion. The animated drawings are particularly effective in the sequence that describes, step by step, the detailed operation of the reciprocating engine.

SG-128 STORY OF MAGNETISM (Colour) 14 MINS.
The purpose of this film is to help develop more completely the pupil's understanding of the nature of magnetism, with special attention to the relationships between magnetism and electricity. The student learns of the vital importance of the work being done in this area of science as it applies to the work and life of the world.

SG-51 SUN'S FAMILY, THE 11 MINS.
This film explains what the solar system is: that the sun is really one of the smaller stars, and that the nine planets revolving around it constitute its "family"; that the earth is one of the planets, and that each planet travels in a fixed orbit around the sun.

SG-52 TEMPERATURE, MEASURING OF 11 MINS.
Using the thermometer as its example, this film introduces the principle of contraction and expansion. It shows how liquid and metal thermometers work.

SG-53 THINGS EXPAND WHEN HEATED 11 MINS.
Demonstrates by animation and simple photography the movements of molecules before and after heat is applied, showing that their accelerated movement requires more space and therefore causes expansion. Many concrete examples are used.

SG-45 THIS IS THE MOON 11 MINS.
Excellent enlarged telescopic views show clearly the detail on the surface of the moon. Demonstrations and animated diagrams develop the reasons for the moon's phases, and explain that the moon shines by the reflected light of the sun.

SG-47 THUNDER AND LIGHTNING 11 MINS.
The film explains thunder and lightning in simple terms, leading to the understanding of static electricity. It shows that rubbing certain objects together causes them to become charged with electricity; that like charges repel and unlike charges attract; that in a similar manner clouds become charged, and that lightning results when they discharge. Protective measures against electrical storms are discussed.

SG-108 TREASURES OF THE EARTH (Colour) 11 MINS.
An animated film that visualizes some of the ways in which minerals have been deposited in the earth, and the resulting changes through the forces acting on the earth's crust. Describes how oil was trapped in the earth's folds and how coal was formed.

SG-83 TRIP TO THE MOON, A (Colour) 16 MINS.
An imaginary rocket takes off to the moon and explores its surface. During the trip we learn many facts about conditions met in navi-

gation to the moon. Once above the moon's surface, the film shows in detail the craters and seas, the valleys and the mountains that can be seen from the earth.

SG-54 UNDERSTANDING OUR EARTH: GLACIERS 11 MINS.
Glaciers from Alaska, the United States, Canada and Europe are shown to orient the audience to the many different kinds of glaciers and how they are formed. Visual instruction also covers the formation of icebergs, and the significance and impact of glaciers during the ice age. Evidences of glaciation are seen in glacier lakes in the Rocky Mountains, soil in the Middle West, glacial drift in New England, and the Matterhorn peak in the Swiss Alps.

SG-78 UNDERSTANDING OUR EARTH: HOW ITS SURFACE CHANGES (Colour) 11 MINS.
This film acquaints students with the forces which build up and wear away the earth's surface over long periods of time. Scenes of wind and water at work, of volcanic eruption and lava flow, and of the geologic evidence offered by various formations, reinforce the key concepts of the film.

SG-84 UNDERSTANDING OUR EARTH: ROCKS AND MINERALS 11 MINS.
The three classes of rocks — igneous, sedimentary, and metamorphic — are related to the natural conditions that produce them. The various uses of rocks and minerals in their natural state are explained.

SG-26 VOLCANOES IN ACTION 11 MINS.
By the use of diagrams, the formation and the eruption of volcanoes are illustrated with photography of actual examples. Animated drawings are used to show the theory of the cause of volcanic eruption.

SG-129 VOLUME AND ITS MEASUREMENT (Colour) 11 MINS.
Using three-dimensional plastic models, this film demonstrates basic principles in measuring volume, and graphically illustrates the meaning of cubic units of measure. Volumes of prisms, pyramids, cylinders, and cones are found both by actual measurement and by the use of mathematical formulae. Practical applications for the use of these formulae are indicated.

SG-27 WATER CYCLE, THE 11 MINS.
Shows the movements of water from ocean to sky to rain to streams, rivers and back to oceans. The motion picture describes by actual photography and animation how the circulation of water is divided into atmospheric and ground circulation, how clouds form, how storms develop, how droplets of water collect and how rain falls, and follows the movements of surface and underground water.

SG-30 WATER, GROUND 11 MINS.

Indicates the origin of ground water and its relationship to rainfall. Explains the work of ground water in producing artesian wells, geysers, caverns and petrifications.

SG-109 WATER WORKS FOR US 11 MINS.

Explains water pressure and the factors that govern its work. Explains how water works for us in everyday life, as a liquid, a gas and a solid.

SG-110 WAY STATIONS IN SPACE (Colour) 14 MINS.

Some problems involved in putting a space station into orbit around the earth are introduced. The need for such structures to serve in space exploration, in communication, and in research, is explained.

SG-111 WAYS TO FIND OUT (Colour) 11 MINS.

A young child's experiences through the use of his senses. He can see clouds, smell damp leaves, hear the patter of raindrops, feel the wetness, and even taste the rain. In his home, he explores that wonderful world that is revealed through size and shape, rough and smooth, and loud and soft.

SG-112 WE USE POWER 11 MINS.

Various kinds of power are explored through simple experiments: muscle power, wind, water, steam, electricity, gas, diesel and jet. Experiments are performed by two 11–12-year-old children.

SG-79 WEATHER STATION, THE 11 MINS.

Johnny visits the local weather station with a meteorologist. The functions of the various instruments that record temperature, pressure, wind velocity, and humidity are explained, and the exchange of information among stations is developed.

SG-71 WHAT ARE MACHINES? 11 MINS.

This film defines what a machine is, how machines developed and how machines have changed our way of living. Specific examples show how machines are involved in most of our daily activities, and how almost everything we use is made by machines.

SG-32 WHAT IS SCIENCE? 11 MINS.

This film is designed as an introduction to the study of science. In a simple story, it presents the application of the scientific method, embracing five steps: curiosity, observation, hypothesis, testing of hypothesis, and conclusion.

SG-130 WHAT IS SO IMPORTANT ABOUT A WHEEL? (Colour) 10 MINS.

The film describes the relationship of the wheel to man's progress and challenges students to observe wheels more keenly.

SG-131 WHAT MAKES DAY AND NIGHT? 8 MINS.

Demonstrates that alternation of day and night is due to the rotation of the earth on its axis, and that it always is daytime on some part of the earth.

SG-132 WHICH WAY IS NORTH? (Colour) 14 MINS.

A freighter at sea, a jet airliner heading for a distant city, a patrol of Boy Scouts hiking back to camp — all are dependent on direction-finding in order to reach their destination. For thousands of years, men have devised different ways of locating north. After they had determined north, they could orient themselves correctly. With the development of the compass, however, travellers had to adjust their methods of direction-finding, for the compass needle does not point to true north — it points to magnetic north.

SG-149 WHY COMMUNICATION SATELLITES? (Colour) 12 MINS.

Explains how radio and television signals, travelling in a straight line, can be sent around the curve of the earth. Through the use of satellites, they may simply be bounced back, or strengthened and rebroadcast. Shows how communication satellites may be used to send direct signals to any place on earth, to space ships, or even to bases on the moon.

SG-143 WHY EXPLORE SPACE? (Colour) 16 MINS.

A thought-provoking film which raises questions in both science and social studies. What are the values of space research? How does it relate to world problems? How will new knowledge change your life? Recent achievements in space flight are used to demonstrate suggested answers to such questions.

SG-113 WHY SEASONS CHANGE? 11 MINS.

Detailed animated drawings, of spring, summer, fall, and winter show the gradual change that takes place in both Hemispheres, as the earth makes its journey around the sun. The film explains why it is hot in summer and cold in winter, and why the seasons in the Northern and Southern Hemispheres are always opposite.

SG-144 WIND AND WHAT IT DOES (Colour) 11 MINS.

Experiments demonstrate the work of warming and cooling air in creating winds. Animation is used to show the causes and directions of prevailing winds around the earth, while live-action photography illustrates the behaviour of winds.

SG-49 WORLD WE LIVE IN, THE 11 MINS.

This film shows the relationship of the earth as a planet to the sun. The causes of the seasons, zones of the earth, land and water surfaces are portrayed. This film provides a good preparation for Social Studies at the senior grade level.

SG-133 YOU AND MACHINES (Colour) 13½ MINS.

The purpose of this film is to help pupils comprehend the importance of machines by explaining how energy is controlled and directed to do work. The uses of levers, inclined planes, wheels, axles, gears, and pulleys are all demonstrated. In this machine age, increased force, increased speed, and transmission of energy are essential to meet the ever-growing demands of our way of life.

Science — Natural

SN-171 ADAPTATIONS OF PLANTS AND ANIMALS (Colour) 16 MINS.

Examples illustrate the adaptations of living things to environment, for food-getting, and for protection. Directed observation of a variety of plants and animals leads pupils to an awareness of the principles of adaptation so important to survival.

SN-156 AMPHIBIANS (Colour) 11 MINS.

The subject of this film is the life of amphibians — frogs, toads, and salamanders. It presents the characteristics they share and the differences among them. We see how and where they live, what they eat, and what changes they undergo in their development and metamorphosis. A typical amphibian, the frog, is followed through its life cycle.

SN-144 ANIMALS AND THEIR FOODS (Colour) 11 MINS.

The many animals seen in this film are divided into three groups according to the foods they eat: (1) those that eat plants; (2) those that eat meat; and (3) those that eat both plants and meat. The illustrations shown are keyed to explain the basic concepts that different animals are suited to eating different kinds of food.

SN-145 ANIMALS AND THEIR HOMES (Colour) 11 MINS.

Shown are various types of animal homes, with illustrations of them as protected places for rearing the young. Animals shown and discussed are the duck, grebe, beaver, stickle-back, rabbit, horned lark, robin, eagle, squirrel, gopher, prairie dog, wasp and cliff swallow.

SN-146 ANIMALS AT WORK IN NATURE (Colour) 11 MINS.

Many kinds of animals are shown doing work that is necessary for their survival. Close-up photography shows that animals have special body parts they use as tools to drill, weave, carry, glue, suck, dig and chew. Some of the animals portrayed are bear, gopher, beaver, cricket, mosquito, bee, ant, caterpillar, etc.

SN-157 ANIMALS, BABY 11 MINS.

Using several animal families, this film introduces such concepts as degree and nature of parental care, resemblance to parents, general patterns of growth, variation in independence, and the fact that some baby animals are hatched from eggs and others born from the body of the mother.

SN-185 ANIMAL FRIENDS (Colour) 11 MINS.

The adventures of a kitten and her friend, a big white dog, as they eat and play together. Stresses such moral and spiritual values as friendship, consideration, and helpfulness.

SN-172 ANIMAL HOMES 11 MINS.

Animals live in trees, in the ground and in water. Not only are settings and exterior scenes of different homes shown, but views are provided inside such homes as those of the trap-door spider, squirrel, raccoon, skunk, woodchuck and wood mouse.

SN-1 ANIMAL NEIGHBOURS, OUR 11 MINS.

In this film we study the homes and habits of ten common animals — rabbit, gray squirrel, fox squirrel, chipmunk, gopher, deer mice, meadow mice, shrew, mole, and bat. The film is designed as an introductory film on small mammals, and is particularly suited for younger children.

SN-224 ANIMAL TRACKS AND SIGNS (Colour) 11 MINS.

This film shows how animals can be identified by the tracks they leave in mud, snow or sand. Two children identify tracks taken from a mud trap by reference books; they also search for other tracks and signs of animals in the woods and along the seashore.

SN-95 ANIMALS GROWING UP 11 MINS.

Traces the growth and development of baby animals during the first few weeks of life. Three sequences show hatching chicks, a litter of puppies, and a baby calf.

SN-56 ANIMALS, HOW NATURE PROTECTS 11 MINS.

The adaptations of many animals in various environments as means of protection are dealt with in this film. The importance of fleetness of foot, mimicry, coloration, armour, and seclusion is depicted.

SN-173 ANIMALS IN AUTUMN (Colour) 11 MINS.

Typical autumn activities of a variety of animals are shown — searching for food, building warm homes, preparing to migrate or hibernate during the winter months. Large animals like the deer; smaller animals like the fox, rabbit, ground squirrel, raccoon, weasel and cony; cold-blooded animals, birds and insects are included.

SN-4 ANIMALS IN MODERN LIFE 11 MINS.

This film deals with the wide variety of uses to which animals are put in our modern civilization — to furnish food, clothing material, and power.

SN-133 ANIMALS IN SPRING (Colour) 11 MINS.

This film depicts a spring excursion into the natural environs of bluebirds, ducks, insects, frogs, turtles, foxes, skunks, woodchucks, and others to show their way of life in spring.

SN-99 ANIMALS IN WINTER 11 MINS.

Illustrates the methods of survival of the badger, woodchuck, chipmunk, caterpillar, snowshoe rabbit, and bluejay. Their preparations in autumn and life in winter are shown.

SN-148 ANIMALS LIVE IN WINTER, HOW (Colour) 11 MINS.

Winter scenes of birds, a snowshoe rabbit, raccoon, badger, skunk, and deer are compared with some views of these animals at other times of the year to introduce such concepts as migration, hibernation, and protective coloration which help children understand how animals adapt to winter living.

SN-206 ANIMALS OF PREHISTORIC AMERICA (Colour) 15 MINS.

Motivated by the interest of two children, a paleontologist explains how the development of animal and plant life on earth is interpreted from fossil remains. The changing forms of animal life over the past billion years, from simple invertebrates to modern mammals, are shown by means of fine picture reconstructions and animated models.

SN-106 ANIMALS OF THE WOODS, COMMON 11 MINS.

This film shows us gray squirrels, rabbits, raccoons, porcupines, otters, mink, beavers, woodchucks, and possums in their woodland home. We learn about the varied life of the woods and the habits of many of these animals.

SN-207 ANIMALS PROTECT THEMSELVES (Colour) 11 MINS.

Billy, his father, and Snooper his dog take a walk through the woods and discover some of the ways animals have of protecting themselves from their enemies. Billy learns that some animals protect themselves by running very fast, others by their coloration, and still others by their structure. Some animals, such as the skunk, have quite unique and effective defense mechanisms. We see many of the more common animals, and observe the way they are adapted for protection.

SN-208 ANIMALS SEE IN MANY WAYS (Colour) 11 MINS.
The film illustrates the differences in the eyes of various animals — from the simple eyes of an insect to the complex eyes of a backboned animal. The kind and position of an animal's eyes is often a clue to the animal's way of life.

SN-187 ANIMALS USEFUL TO MAN (Colour) 16 MINS.
This film traces the contributions animals have made from primitive times down to the present day. In our highly mechanized civilization, animals still supply many of man's needs. As a source of food and raw materials, they are just as valuable as ever. In certain geographical areas of the world, the muscle power of animals is almost indispensable. Doctors and scientists find ever-increasing use for animals in research. And today, as ever, animal pets give pleasure to countless numbers of people.

SN-147 ANIMALS–WAYS THEY EAT (Colour) 11 MINS.
Emphasis is placed on the use of specially adapted body parts which enable various animals to catch and eat the food necessary for their survival. Among the animals shown are amoeba, snails, crabs, fish, birds, giraffes, cows, and other wild and domestic animals. Slow motion and extreme close-up photography show the smallest details.

SN-149 ANIMALS–WAYS THEY MOVE (Colour) 11 MINS.
The different means of movement that animals use are pictured — running, hopping, crawling, climbing, swimming, gliding, flying. Slow photography is used on the fast-moving animals and speeded-up photography for slow-moving animals. Some of the animals shown are bison, ostrich, kangaroo, rabbit, grasshopper, inchworm, snail, snake, eel, sea lion, flying squirrel and heron.

SN-158 ANTS 11 MINS.
The activities of four different types of ants — mound builders, black ants, household ants, and carpenter ants are described. The life cycle of the carpenter ant is traced in detail, including construction of the nest, laying of eggs, feeding of young, hatching, and preparations for swarming.

SN-150 AQUARIUM, MAKING A BALANCED 11 MINS.
Bob and Lynn make a balanced aquarium in a glass tank. They demonstrate the step-by-step procedures of collecting soil and river gravel, placing these and water in the tank, gathering and planting pond weeds, and then securing fish and other water animals to complete their aquarium.

SN-174 AUDUBON AND THE BIRDS OF AMERICA (Colour) 17 MINS.
The life and works of John James Audubon are unfolded as the film

re-creates Audubon's youth, his struggles to resolve repeated business failures with an intense interest in painting wildlife, his decision to dedicate his life to his art, and his eventual triumph in the publication of his magnificent work, "The Birds of America".

SN-8 BEACH AND SEA ANIMALS (Colour) 11 MINS.
Appearance, natural activities and adaptations of several common animals of the seashore are shown in this film. Close-ups and explanations give a clear presentation of the peculiar features of many of the animals. Starfish, crabs, cuttlefish, an octopus, snails and scallops are some of the animals shown in this film.

SN-9 BEAR AND ITS RELATIVES 17 MINS.
In addition to a close study of the private lives of the grizzly, the Kodiak, the polar bear, and the brown bear, the film pictures the Panda, the world-famous Mei-Mei. We see her as she eats, sleeps, plays, and is groomed. This film appeals to children of all ages.

SN-125 BEAVER MAKES A COMEBACK (Colour) 20 MINS.
This is a film report of a beaver conservation project for Indian trappers of the James Bay area. The film explains how the project was put into effect, and contrasts the economic plight of the Indian population when the beaver had been all but exterminated, with the improved living conditions after the area was restocked.

SN-175 BEHAVIOUR IN ANIMALS AND PLANTS (Colour) 11 MINS.
We are introduced to four types of behaviour in animals and plants. Developed from the simple to the complex, each type of behaviour — tropism, reflex action, instinct, and intelligence — is defined and illustrated.

SN-159 BIG ANIMALS OF AFRICA (Colour) 11 MINS.
This film pictures many of the larger animals of Africa, explaining how they live together. Included are the zebra, giraffe, wildebeest, lion, elephant, rhinoceros, hippopotamus, ostrich, flamingo, and many others.

SN-209 BIG GREEN CATERPILLAR, THE (Colour) 11 MINS.
A boy finds an insect egg which he observes throughout the process of hatching of the insect, and its later development. The purposes of the film illustrate how an animal adapts to its environment, shows the life-cycle of an insect, motivates an interest in science and stimulates a greater awareness of the interesting things in nature that are available to all children.

SN-151 BIG LAND ANIMALS OF NORTH AMERICA (Colour) 11 MINS.
This film identifies several large wild animals such as the moose, elk,

bison, bear, and deer and calls attention to their distinguishing characteristics. It describes their relationships to each other and to their environment.

SN-160 BIRD HOMES (Colour) 8 MINS.
Different kinds of bird homes are portrayed, as well as the habitats in which they are found, and the types of materials used in nest building. We see that the basic plan for a nest is a cup-shaped hollow or structure and that it may be as simple as a small depression scratched in the ground or as neat as the structure of fine materials built by the warbler.

SN-107 BIRD HOUSES, BUILDING (Colour) 11 MINS.
Helped by an older brother, two children set to work making a bluebird house and a robin shelter. They collect materials, work from detailed plans, complete the houses, and in early Spring put them up with nesting materials nearby. The film explains the purpose of building bird houses, points to remember in construction, and shows common birds nesting in several types of bird houses.

SN-100 BIRDS ARE INTERESTING (Colour) 11 MINS.
Birds differ in may ways. Some are resident, while many migrate. They differ in the use of their wings. The greatest variety is shown in bills and claws, and the ways in which they are used. Many pictorial examples are provided.

SN-210 BIRDS AND THEIR CHARACTERISTICS (Colour) 11 MINS.
This film shows in detail the characteristics which differentiate birds from the other groups of vertebrates. Features which all birds have in common are shown — feathers, wings, and legs, warm-bloodedness, and beaks. We learn of the adaptations and special characteristics of several kinds of familiar birds. Unusual slow-motion photography shows details of a bird's flight.

SN-134 BIRDS, FIVE COLOURFUL (Colour) 11 MINS.
The goldfinch, cedar waxwing, yellow-headed blackbird, redheaded woodpecker, and bluebird have been photographed in their natural habitats. They are shown feeding, nesting and rearing their young. The dull garb of the female is contrasted with the brilliant plumage of the male.

SN-188 BIRDS: HOW WE IDENTIFY THEM (Colour) 11 MINS.
We go along with two boys, Bob and Ray, as they set out to look for birds. With field glasses and bird guide book, they see and identify many different birds. We learn how to distinguish one bird from another: by appearance; the sounds they make; and their actions,

both on the ground and in the air. The identifying characteristics of many of our more common birds are pointed out as we observe them in their natural habitat.

SN-13 BIRDS IN WINTER 11 MINS.
This film is designed as an introduction to bird study for all ages and is particularly directed towards stimulating young children to project activities and to encourage conservation of bird life. Winter residents shown include the Chickadee, Nuthatch, Junco, Cardinal, English Sparrow, Starling, and the Downy and Hairy Woodpeckers.

SN-108 BIRDS IN WINTER, ATTRACTING (Colour) 8 MINS.
Observing winter birds attracted to a feeding station in their uncle's backyard, two children decide to build stations of their own and set out a variety of food. The film creates interest and gives reasons for attracting birds to our backyards; explains most suitable foods; and shows common species in their natural habitat and at several types of feeding stations.

SN-14 BIRDS OF PREY 11 MINS.
These birds of prey are presented in their natural habitats, with many close-ups to show their peculiar features. The barn owl, screech owl, great horned owl, bald eagle, sparrow hawk, marsh hawk, red-tailed hawk, rough-legged hawk, turkey vulture, and black vulture are shown. The film points out the work that these birds do in killing rodents and other destructive pests.

SN-126 BIRDS OF THE DOORYARD (Colour) 11 MINS.
Robins, warblers, phoebes, flickers, cardinals, swallows, wrens and martins are seen and heard. The film brings out differences among these birds, their ways of protecting their nests and feeding their young, and ways in which they may be encouraged to nest in backyards.

SN-11 BIRDS OF THE MARSHES (Colour) 11 MINS.
The colour camera travels deep into the marshes to bring you a study in birdlife seldom seen. Besides the red-winged blackbird, least bittern, and marsh wren, the homes of the sora rail and the pied-billed grebe are presented in their natural surroundings.

SN-12 BIRDS OF THE NORTH WOODS 11 MINS.
An excellent study in which the nesting and living habits of some northern birds are shown. Very fine close-ups bring the birds near enough for detailed observation.

SN-109 BIRDS OF THE PRAIRIE MARSHES (Colour) 11 MINS.
This film uses close-up photography to give an excellent understanding of the life of the wild ducks, geese and other water birds of the western marshes of Canada.

SN-110 BIRDS THAT EAT INSECTS (Colour) 8 MINS.
The various birds which feed on insects are shown, with emphasis on their adaptability for catching and eating the insects. Some of the birds shown are the barn swallow, the kingbird, the yellow warbler, the hairy woodpecker, the flicker, and the robin.

SN-111 BIRDS THAT EAT SEEDS (Colour) 8 MINS.
Designed to show children how the physical structure of birds is adapted to the kind of food they eat, this film is about seed-eating birds. A boy feeding his canary draws attention to the bird's cone-shaped bill, small size, and agility. Similar features are noted in evening grosbeaks at the boy's feeding station. The junco, indigo bunting, goldfinch, whitecrowned sparrow, song sparrow, crossbill, and cedar waxwing are also shown.

SN-15 BLACK BEAR TWINS 11 MINS.
A family, on a camping trip, encounters a pair of black bear cubs. The children feed the twins. The cubs visit the tent while the family is absent and they eat what they can find and upset everything. Later, the cubs raid a bee hive and then nurse their stings by rolling in mud. Commentary is in simple language.

SN-152 BLIND AS A BAT (Colour) 6 MINS.
The life and habits of the bat are pictured. Close-ups show that it is not blind but has well-developed eyes. Laboratory tests demonstrate the bat's ability to avoid obstacles, even when blindfolded, by emitting inaudible cries.

SN-82 BLUEBIRD (Colour) 11 MINS.
The film shows the bluebird's summer visit in the North where it competes with wrens and starlings for nesting sites. The bird's song is heard, the care and feeding of the young are shown, and the bird's economic value is pointed out. Also shown are five species of woodpeckers.

SN-16 BOBOLINK AND BLUEJAY (Colour) 11 MINS.
The nesting habits, methods of rearing their young, and other typical customs of these two birds are contrasted by a comparative study. The use of this film should lead to a better appreciation of the differences exhibited by common birds in their appearance and habits.

SN-17 BREAD 11 MINS.
Sequences in this film portray the use of flour in the home; the harvesting of wheat; flour milling; and the making of bread in a modern bakery.

SN-18 BRUINS, THREE LITTLE 11 MINS.
Three live bear cubs call on the foxes, rabbits, the skunks, and other neighbours in the woods. Tired and happy, they finally return to

their mountain home. Children will delight in this little story of the three bears in country dress.

SN-176 BUMBLEBEE, THE (Colour) 11 MINS.
Every aspect of the life of the bumblebee is seen in close detail: hibernation, hunting for a nesting site and the strange story of the kidnapped queen.

SN-19 BUNNY RABBIT 11 MINS.
Bunny's adventures begin in the film when he is only a few days old. A fox chases Bunny's mother and tries, unsuccessfully, to get into the rabbits' home. When Bunny is old enough, he ventures out into the woods and finally makes a trip to a farm where he meets and talks to cows, chickens, puppies, and turkeys. The language used is simple and the close-ups of the animals are excellent.

SN-20 BUTTERFLIES 11 MINS.
Shows the life cycle of the butterfly and indicates the economic importance of both the harmful and the beneficial types. Natural control through parasitism is demonstrated.

SN-84 BUTTERFLY BOTANISTS (Colour) 11 MINS.
Butterflies seem able to recognize and select with amazing accuracy the plants they need for food. Their relationship with plants, their life cycle story, and their economic importance are dramatized here with Monarch, Fritillary, Viceroy, Wanderer, and other important species shown in egg, larva, chrysalis and adult stages.

SN-50 BUTTERFLY, MONARCH (Colour) 11 MINS.
Development of the Monarch Butterfly from a caterpillar through the various changes of the chrysalis stage to the adult. An excellent film in beautiful colour.

SN-21 CAMOUFLAGE IN NATURE BY FORM AND COLOUR MATCHING (Colour) 11 MINS.
This is a photographic description of the way in which Mother Nature combines animal colouring and body form to provide protection in the natural habitat. Various birds and animals are used as examples.

SN-22 CAMOUFLAGE IN NATURE BY PATTERN MAKING (Colour) 11 MINS.
Presents numerous examples of birds, animals, insects, fish, reptiles, and amphibians which depend upon the camouflage of pattern to protect them from their enemies.

SN-161 CHAMELEON, THE (Colour) 11 MINS.
The characteristics and habits of the chameleon are depicted in colour and with extreme close-ups to demonstrate details of the feet and

eyes. The chameleon is seen in its normal habitat, camouflaged against the leaves, moving about the branches. Some remarkable scenes show the colour changes of the skin in response to light changes and temperament.

SN-135 CONSERVATION, MEANING OF (Colour) 11 MINS.
This film shows what is being done to maintain our country's resources and natural beauty by limiting hunting and fishing, building dams to control floods, planting trees, and developing new farming methods.

SN-189 CORAL KINGDOM (Colour) 8 MINS.
Beautiful scenic views reveal the plant and animal underwater life along the twelve hundred miles of the Great Barrier Reef of Australia.

SN-127 CULTIVATE YOUR GARDEN BIRDS 11 MINS.
An expert ornithologist spent several years photographing unusual scenes of the cardinal, warbler, bluejay, mourning dove, brown thrasher, grosbeak, cedar waxwing, robin, oriole, catbird, hummingbird, flycatcher, wren, and spotted sandpiper. Specific suggestions are offered to help you attract and observe bird life.

SN-23 DANDELION 11 MINS.
Growth, fertilization, and root structure of the dandelion are portrayed in this film.

SN-24 DEMONS OF THE DEEP 11 MINS.
Describes animal life in a vast watery domain. Illustrates the turtle, spotted ray, shark, and bluefish, with a fight to the finish between an octopus and a moray eel.

SN-85 DUCKS, SEVEN LITTLE 11 MINS.
Carol, a little girl, has Muscovy ducks as pets. Close-up photography shows seven little ducklings emerging from eggs. They have their first swim, their first search for worms, and other adventures, under the supervision of the parent birds.

SN-25 ELEPHANTS 11 MINS.
The film shows an elephant farm where the animals are trained for the circus. As the story of Mumbo proceeds, close-ups of her large ears, eyes, trunk, feet, and skin are shown and the commentator remarks on the characteristics of each. The elephants do tricks, push a stalled truck, and one takes a bath in water and dust.

SN-211 FALL BRINGS CHANGES (Colour) 11 MINS.
The adaptation of plants and animals to colder weather is shown. This film is also most useful as a teacher's aid in the area of Language Arts. It is beautiful and poetic and will inspire many stories to enrich the child's imagination and vocabulary.

SN-177 FARM BABIES AND THEIR MOTHERS (Colour) 11 MINS.

The film, introducing seven different farm animal babies and their mothers, challenges the child to name both mothers and babies. In separate sequences, each animal is shown and described, its habits and economic importance indicated. At the end of each sequence, the animal mother and her baby are identified by name.

SN-27 FERN, THE

A study of the two generations in the life history of the fern. The bursting of spores and early stages of growth of the prothallus are shown in detail. Animated diagrams explain the structure of male and female organs and the process of fertilization.

SN-212 FISH AND THEIR CHARACTERISTICS (Colour) 11 MINS.

Through underwater photography we are introduced to the characteristics of fish and shown how this group of vertebrates is fitted for its environment. The film illustrates the variety of form, protective devices, and reproductive methods in different types of fish. True fish are distinguished from other marine animals. The freshwater perch is studied as a representative fish.

SN-153 FISH OUT OF WATER (Colour) 11 MINS.

How the grunion spawns in the sand is portrayed. The embryonic development of the eggs is studied in the laboratory with photomicrography and time-lapse photography. Animated charts show how the spawning is timed to the tides.

SN-29 FLOWERS AT WORK (Colour) 11 MINS.

The structure and function of the various parts of a flower are shown by means of animated drawings. Reproductive processes of many plants are depicted. Different methods of pollination are shown.

SN-30 FOREST AND CONSERVATION (Colour) 11 MINS.

This is an important film for the study of the critical problem of how to conserve and efficiently utilize our forest resources. Correct logging, proper methods of cutting trees, and preparing the log for the mill are shown. We see the reforestation programme. The entire process from planting the seedling to taking care of the tree in maturity is illustrated. The combination of detailed information and fine photography makes this film an excellent one for any age level.

SN-136 FOREST, LIFE IN THE (Colour) 11 MINS.

We are shown how forests, like cities, are constantly changing and densely populated. The telephoto lens shows how even the trunk of a dead tree teems with life. What is food for one denizen may be a threat to another, but all depend on plant life for food and shelter.

SN-162 FOREST TENT CATERPILLAR (Colour) 16 MINS.
Close-up camera studies illustrate the life cycle of the forest tent caterpillar and show the damage caused annually to our deciduous forests by this voracious insect. The film traces its development from the egg-laying through larval and pupal stages to the emergence of the lackey moth, and shows how the caterpillar population is controlled by natural hazards and the rapacity of other insects.

SN-163 FROGS AND TOADS 11 MINS.
The life cycle and life functions of frogs and toads are illustrated in this film. Eating habits, identification of species and calls are included.

SN-31 FROG, THE (Colour) 11 MINS.
The environment and complete life cycle of the frog is dealt with in detail. The economic importance of the frog in destroying harmful insects is shown.

SN-103 FUR SEAL 11 MINS.
Designed to provide an understanding of how and where the fur seal lives, its place in the biological kingdom, and its importance to man. This film is a complete photographic study of the fur seal, describing its life and habits, and pointing out its adaptation to environment.

SN-113 GARDEN, FOODS FROM OUR (Colour) 11 MINS.
This film portrays a garden at the time when the vegetables have matured. It reveals the function of roots in anchoring and nourishing plants, and of leaves in producing energy. It explains that various plants have different edible parts, such as fruits, stems, flowers, bulbs, and roots.

SN-114 GARDEN, TAKING CARE OF OUR (Colour) 11 MINS.
In this film we see the kinds of damage done to vegetable plants by various insect pests, and we learn how these pests can be controlled. We also learn about certain helpful insects, and how the soil of the garden can be kept in good condition for the growing plants.

SN-33 GOATS (NANNY AND BILLY) 11 MINS.
The feeding, milking and care of goats are shown on a typical goat farm. Two kids frolic, jump, climb, and get into mischief. The goat's milk is delivered to town by a boy, driving a billy-goat in a small wagon. All is presented in story form, using simple language.

SN-154 GOLDFINCH FAMILY (Colour) 8 MINS.
A complete view of the family life of goldfinches is presented, with many vivid close-ups. We see their eating habits, their special way of building a nest, and their methods of feeding and caring for their young.

SN-34 GRASSHOPPERS 11 MINS.

This film contains a fairly complete study of the grasshopper. It gives its life history and shows its destructiveness.

SN-137 GRASSHOPPER: A TYPICAL INSECT 6 MINS.

The body structure of the grasshopper is shown as exemplifying the basic characteristics that identify insects, and its life cycle is studied as typical of those insects which go through a process of incomplete metamorphosis. The need for controlling the grasshopper's destructiveness is also shown.

SN-35 GRAY SQUIRREL, THE 11 MINS.

A family of gray squirrels is shown in their nest in an oak tree. The baby squirrels are photographed at different stages of growth. The young squirrels learn to climb, play, and find nuts. There are some excellent close-ups, one especially of a squirrel cracking a nut. How nuts are hidden and later dug up is shown. The language is simple.

SN-39 HONEY BEE, THE 11 MINS.

Life in a bee hive is described in this film. The work of the three types of bees is illustrated. Excellent close-ups show hatching of workers and queens; also swarming, making of honey, and building a new hive.

SN-40 HOUSEFLY (Colour) 16 MINS.

Shows the structure, life-cycle and breeding of the common housefly. The fly's method of spreading disease germs, the laying and hatching of eggs, and the development of the adult fly are illustrated. Methods of fly control are suggested.

SN-164 HOW ANIMALS HELP US 11 MINS.

Explains and shows the many services and products that we derive from animals. Designed to help students appreciate interdependence.

SN-165 HOW INSECTS HELP US (Colour) 11 MINS.

Working in his mother's flower garden, Bill notices only harmful insects. But when he and Jack go fishing he becomes aware of many useful insects. The audience sees insects that are valuable because they destroy others that are harmful, insects that are food for fish and birds, bees that carry pollen and make honey, silk worms, and numerous insects that are beautiful and fascinating to observe.

SN-128 HOW PLANTS HELP US (Colour) 11 MINS.

As Steve bicycles to his uncle's farm, he observes the plants around him, and discovers that plants are helpful in many ways. With him, your pupils will learn how people are dependent upon plants for their food and clothing, for wood, paper, rubber, and many other common articles important in their daily lives.

SN-213 HOW SUNSHINE HELPS US (Colour) 11 MINS.
Because Jack is sunburned, he thinks it would be better if there weren't any sunshine. But he learns that sunshine gives us light and warmth, and makes rain for plants to grow — giving us food.

SN-116 HOW TREES HELP US (Colour) 11 MINS.
Walking through the woods with his father, Wally sees different kinds of trees and begins to learn of the many ways trees help us by supplying lumber, food, and material for things we make. In the story of a mighty old oak, Wally realizes how very long it takes a tree to grow and how it is valuable throughout its life.

SN-228 HOW WE KNOW ABOUT THE ICE AGE (Colour) 16 MINS.
The ice age has left lasting evidence of its passing in many parts of North America. Scientists are observed studying these areas in an effort to determine what caused earlier glaciers and to explore the possibilities of future movements of ice fields.

SN-190 INSECT FOODS (Colour) 22 MINS.
The various foods of insects and their feeding habits are of great importance to people. In very close action, examples of all stages of insect life are presented.

SN-44 INSECT WORLD, KILLERS OF THE 11 MINS.
This film depicts the struggle for life among insects and spiders. A wasp kills a cricket, but in turn is killed by a spider; the spider falls prey to a solpugid which is overcome by a scorpion. Excellent close-ups are presented.

SN-96 INSECT ZOO (Colour) 11 MINS.
A boy and his young sister set up an outdoor insect zoo in jars and boxes. On display are the katydid, cricket, caterpillar, milkweed bug, ladybird beetle, an ant-house, and a pet praying mantis. Close-up shots are accompanied by interesting and informative commentary. This is an excellent film to motivate study and observation of insects.

SN-115 INSECTS (Colour) 11 MINS.
The class of animals known as insects is clearly defined. The film identifies the principal characteristics of butterflies, wasps, beetles, flies, and grasshoppers; and points up differences between true insects and their near relatives. It reveals life cycles, feeding habits, and protective colouring of a variety of insects, and explains ways in which man can encourage beneficial insects and combat pests.

SN-167 INSECTS ARE INTERESTING (Colour) 11 MINS.
Clear understanding of how insects live, their biology, their life

histories and their adaptations is developed. The metamorphosis of the locust, the moth and the butterfly is illustrated in detail.

SN-63 INSECTS, POND 11 MINS.
Shows the life cycles of the water beetle, the May fly and the dragon fly and suggests the adaptations of these insects to their environment.

SN-214 INTRODUCING INSECTS: BUTTERFLIES, BEETLES AND BUGS (Colour) 17 MINS.
Creatures of the insect world are divided into several groupings. Special camera techniques, magnified close-ups, and slow-motion photography clearly show distinguishing characteristics and patterns of behaviour. From the tiny flea to the giant Goliath beetle this film presents a colourful glimpse of the complexity of these forms of animal life.

SN-43 JAMAICAN HARVEST (BANANAS) 11 MINS.
A study of the cultivation of the banana crop in Jamaica. We see the ploughing, harrowing, planting, pruning, and harvesting. Irrigation methods are shown, together with scenes of sorting, checking, packing, and the transportation of the fruit by bullock cart and rail to the docks for export.

SN-129 KANGAROOS 11 MINS.
This film offers an excellent opportunity to study the physical characteristics and habits of the Australian kangaroo. The appearance, eating habits, play, self-defence, and care of young of these unusual and fascinating animals are well depicted.

SN-45 KITTENS, THREE LITTLE 11 MINS.
Three kittens are born on a farm and are carried by their mother to an old buggy where they are taught to care for themselves. They learn to hunt and to protect themselves against a dog. Later, two are given to a storekeeper and one is kept on the farm. Film is useful for language study as well as elementary social studies.

SN-178 LADYBIRD STORY, THE (Colour) 11 MINS.
The story of how the Vedalia ladybird beetle was discovered in Australia and brought to California in 1885 when the entire citrus industry was threatened by the cottony-cushion scale is depicted. The experiment proved to be the first successful example of biological pest control. By use of close-up and microphotography we study the life cycle of scale and ladybird beetle.

SN-191 LEARNING ABOUT BEARS (Colour) 11 MINS.
This film story of the life of bears in the wilds shows many of the habits and characteristics of the black bear and illustrates the training the cub receives from his mother until he is ready to be on his own in the spring of the second year.

SN-179 LEARNING ABOUT FLOWERS (Colour) 11 MINS.
Vivid photography portrays the story that there are many different kinds of flowering plants. Time-lapse photography is extensively used to show the opening of some of the more common flowers of our fields and gardens.

SN-192 LEARNING ABOUT SEEDS (Colour) 11 MINS.
Explains that there are many different kinds of seed-bearing plants and that seeds have many sizes, shapes and colours. Through time-lapse photography we see how seeds grow and what they need for growth. Several methods of seed dispersal are also clearly illustrated.

SN-46 LEAVES 11 MINS.
The process of photosynthesis is portrayed in detail. The opening of a horse chestnut bud, and a growing nettle twig, are presented by time-lapse photography.

SN-130 LET'S LOOK AT ANIMALS 11 MINS.
The pupils are introduced to the study of animal movement, protection, food-getting, and environment.

SN-116 LIFE ALONG THE WATERWAYS (Colour) 11 MINS.
Beautiful colour photography depicts the many forms of plant and animal life found near the streams, ponds, rivers, and marshes that make up a waterway system. It illustrates the dependence of the members of this community on the waterway, and points out their activities throughout the spring, summer, and autumn seasons. The film indicates physical changes of the waterway in the growth from brook to river.

SN-104 LIFE ON THE WESTERN MARSHES (Colour) 22 MINS.
Illustrates the dangers which beset the wild ducks and geese which come to Canada's Northwest to breed. The film shows how the organization, "Ducks Unlimited" is preserving wild fowl from the various threats to their existence. The last part of the film deals with the protection of other Canadian wild life such as moose, beaver, musquash, the Canada goose, and cedar waxwing. The preservation of these birds and animals is a matter of national interest.

SN-117 LION, TOMMY THE 16 MINS.
The film presents the story of a pet lion cub, showing his daily habits, play, friends and his routine health check by the veterinarian. A parallel is drawn between the cub's habits and those of growing children.

SN-193 LITTLE ANIMALS (Colour) 11 MINS.
Introduces basic concepts of the size of animals and the senses they use. Shows where small animals can be found, and how some can only be observed through a microscope.

SN-215 LIVING MAMMALS, THE (Colour) 17 MINS.
Defining a mammal in biological terms, this film shows characteristics held in common by all mammals and presents the various ways in which mammals have adapted themselves to life in the air, in the water, in tree tops and on the ground. Sequences examine the highly developed senses of sight, smell, touch and hearing and show how these are combined in the hunt for food. The adaptations of teeth for herbivorous, carnivorous, and omnivorous modes of life are shown. Diverse means of self-protection are portrayed.

SN-118 MAMMALS ARE INTERESTING (Colour) 11 MINS.
The essential characteristics of mammals are illustrated in several striking sequences. Various types of mammals are shown in their natural surroundings, and distinctions among these types are depicted.

SN-87 MAMMALS OF THE COUNTRYSIDE (Colour) 11 MINS.
A representative group of mammals that share the land with the farmer — the woodchuck, red fox, skunk, mink, opossum, raccoon, muskrat, and beaver — are studied in terms of their habits, habitat, and influence upon the farmer's crops.

SN-88 MAMMALS OF THE ROCKY MOUNTAINS (Colour) 11 MINS.
Moving up the mountain from the valley grasslands through the wooded slopes and alpine meadows to the barren heights, we see how animals typical of each mountain zone adapt themselves to the changing seasons. The film shows how the mountain goat, bighorn sheep, mule deer, marmot, porcupine, beaver, and others solve their particular problem of food supply.

SN-119 MARINE LIFE (Colour) 11 MINS.
Here is a vivid portrayal of some of the colourful forms of animal life found under the sea. Shown are some typical activities of octopuses, sea urchins, hermit crabs, reef fish, sea robins, moon fish, sergeant majors, and killers of the sea. Tiger sharks, barracuda, porpoises, sea fans, and sea anemones all are seen in their natural surroundings.

SN-229 MARVELS OF THE HIVE (Colour) 20 MINS.
This is a complete documentary film on the biology of the honey bee. It emphasizes the complex behaviour patterns that make up the instinctive activities of bees; it shows the special duties of each class of bee; and it includes the dramatic episode of bees swarming.

SN-194 MIGRATION OF BIRDS—THE CANADA GOOSE (Colour) 11 MINS.
This film tells the migration story of the Canada goose. In brilliant colour photography we see the northward migration flight and its completion in southern Canada. This film shows seldom-photo-

graphed activities of the Canada goose: nesting, raising the young and teaching them to fly, defending against natural enemies, flocking, and finally migrating to winter quarters along the Gulf of Mexico.

SN-49 MILK 11 MINS.

Presents the story of milk from the dairy farm to the table. We see the use of milk in the home, the dairy, milking and the care of cows. Our visit to the modern dairy plant includes a lesson in the pasteurization and bottling of the milk. This is an important film for helping to acquaint children with our modern industrial society.

SN-51 MOSQUITO, LIFE CYCLE OF 11 MINS.

The film describes the life cycle, structure, and feeding habits of the mosquito. Live action and animation are used to show the anatomy. Microphotographic scenes detail the mosquito egg, the larval and pupal stages, and the final emergence of the adult mosquito.

SN-52 MOSQUITO, THE 11 MINS.

The life cycle of the mosquito is illustrated in this film. Sequences reveal common breeding places, various stages in the life cycle, and the emergence of the adult insect. Methods of control and feeding habits are also shown.

SN-168 MOTH, CECROPIA (Colour) 11 MINS.

Here is the life story of one of our most familiar insects. A detailed study of its life-cycle is developed.

SN-216 MOTHER CAT AND HER BABY SKUNKS (Colour) 11 MINS.

In northern California, while preparing to photograph a story about a skunk family, the cameraman chanced upon an unusual situation. A mother cat had adopted some orphaned baby skunks! Children in nursery school, kindergarten, and primary grades classes in language arts and nature study will find this film a rich learning experience. It also has applications for social studies units on family living.

SN-131 MOTHER HEN'S FAMILY (Colour) 11 MINS.

With Jerry, we follow the story of birth from the beginning of embryonic development through the hatching of a hen's egg. We observe the growth of the living embryo as we follow this life process.

SN-169 MOTHER RABBIT'S FAMILY (Colour) 11 MINS.

From the day her babies were born, Mother Rabbit finds Hoppy to be especially curious. As Hoppy grows we see him learn to be a good rabbit even when his curiosity leads him into mischief. He almost falls prey to a hawk and he gets caught by two children, but his good mother brings him safely home again. While telling this simple story, the film also draws attention to some of the characteristics of rabbits.

SN-101 NATURE'S ENGINEER 11 MINS.

This film provided a complete picture of the physical characteristics, interesting habits, and habitat of the beaver. The final sequence stresses the value of this animal in conservation.

SN-57 ORANGE GROWER 11 MINS.

The film tells the story of a typical orange grower and his family, showing the work of budding, pruning, planting, fertilizing, irrigating, and controlling insects.

SN-58 PAPER 11 MINS.

Tells the interesting story of modern paper-making, from the forest to the finished product. Several sequences show paper being made into items familiar to children.

SN-59 PAPER MAKING 22 MINS.

From a sequence of winter logging operations in the northern woods the film follows the logs through conversion into pulp. Both the sulphite process and the ground wood process are illustrated. The action of the digester and the bleacher is explained in animated drawings. The paper is then followed to a large printing firm to show how it is used in the publishing of a magazine.

SN-60 PETS, CARE OF 11 MINS.

Designed primarily to meet the needs and interests of elementary school pupils who are learning the responsibility for their pets and the proper techniques of their care.

SN-195 PIONEER BURRO (Colour) 16 MINS.

Describes the role of the burro and the prospector during the gold rush and development of the west. Film also shows methods of finding and recovering gold by means of pan and cradle.

SN-61 PLANT GROWTH 11 MINS.

The complete life cycle of the pea plant is described. Time-lapse photography shows the germination of the seed and the growth of root, stalk and tendrils. Animation illustrates fertilization.

SN-139 PLANT GROWTH, WONDERS OF 11 MINS.

A girl and her younger brother grow plants from bean and squash seeds, the stem of a geranium, the leaf of a succulent, and the root of a sweet potato plant. The growth is shown in time-lapse photography.

SN-138 PLANT, LIFE OF A (Colour) 11 MINS.

The steps in the life cycle of a typical flowering plant, the pea, are clearly shown. The roles of roots, stems, leaves, flower, fruit, and seed are identified. Time-lapse photography is used to dramatize live-action shots.

SN-180 PLANTS MAKE FOOD (Colour) 11 MINS.
Two children discover how plants make food. They learn something of the functioning of roots, stems and leaves; the transforming of water, minerals and carbon dioxide into foods; the role of chlorophyll and sunlight; the importance of plants as our ultimate source of food. Animation graphically illustrates the food making process.

SN-66 PLANTS, ROOTS OF 11 MINS.
The structure and function of tap, fascicled and fibrous roots, explaining the process of osmosis and the formation and storage of starch and sugar.

SN-62 PLANT TRAPS (Colour) 11 MINS.
Shows the characteristics of plants that feed upon insects. Use is made of time-lapse and microphotography to show the action of the plants in trapping the insects. The pitcher plant and the sundew are illustrated.

SN-120 POINT PELEE—Nature's Sanctuary (Colour) 11 MINS.
Point Pelee National Park provides an ideal spot for the ornithologist, entomologist, and botanist. The forest-covered strip of land projecting into Lake Erie serves as a main way-station for migrating birds. Many different species of birds, butterflies and other insects, along with examples of wild flowers and shrubs, are shown.

SN-217 POND, THE (Colour) 20 MINS.
In extreme close-up colour photography and synchronized natural sound, life forms above and below the surface of the water are observed in action. Wild flowers and plants provide food and shelter for an abundant animal life — invertebrates, fish amphibians, reptiles, birds and mammals. Each member of this total community is studied as it affects all other members in this dramatic relationship.

SN-140 RED HEN, THE (Real Life) (Colour) 11 MINS.
A hen is shown hiding her nest and hatching her chicks. The chicks are seen emerging from the eggs. (This film should not be confused with E-22 Little Red Hen.)

SN-141 REPTILES (Colour) 16 MINS.
This film introduces the five orders of reptiles remaining on the earth. Living sequences of lizards, turtles, tuataras, crocodilians and serpents in their natural habitat are shown.

SN-196 REPTILES AND THEIR CHARACTERISTICS (Colour) 11 MINS.
The film study identifies the five orders of animals that make up the reptile group and points out their common characteristics and some of their differences. We see the snakes, lizards, turtles, crocodilians and the rare tuatara in their native habitats and learn something

of how they live and reproduce, their adaptations to their environments, and some of the ways in which they benefit mankind.

SN-105 ROADRUNNER BATTLES RATTLESNAKE 11 MINS.
The roadrunner is a fast running member of the cuckoo family which is found in Northern Mexico. It does not fly, having very short wings. In the film, the roadrunner attacks and kills a rattlesnake.

SN-64 ROBIN REDBREAST (Colour) 11 MINS.
It is springtime and father robin returns, followed shortly by mother robin. They build a nest, hatch and rear their young, with father robin doing his share of hatching. The growth and the development of the robins are traced until the autumn, when they are shown preparing to fly south.

SN-102 SEASHORE LIFE (Colour) 11 MINS.
Clear photography depicts the variety of life in the shallows, on the sands and mud flats, and in the rocky pools along the ocean shore.

SN-68 SEED DISPERSAL (Colour) 11 MINS.
Portrays the dispersal of seeds by wind, animals and by self-propulsion. Time-lapse photography and microscopic enlargements are used to show the action of the poppy, nightshade, thistle, bean and others. Movements of seeds in germinating and sprouting are shown in slow-motion.

SN-170 SEEDS GROW INTO PLANTS (Colour) 11 MINS.
Seeing the many ways in which little seeds travel, observing the embryo plant inside a bean seed, and watching the growth of a seed into a small plant, children become familiar with the conditions necessary for seed growth and learn that seeds grow into plants like those from which they came.

SN-72 SHEP, THE FARM DOG 11 MINS.
A day in the life of a boy and his collie dog on a farm. The boy and dog herd the cattle to pasture and then have a trip to the woods, where Shep chases a woodchuck. Both boy and dog have a swim, during which the boy pretends he is drowning and the dog saves him.

SN-197 SINGING FROGS AND TOADS (Colour) 11 MINS.
An interesting film on various sizes and kinds of frogs and toads found in Canada; the sounds they make, the kind of places they live in and what they live on at various stages of growth.

SN-121 SKUNK, ADVENTURES OF WILLIE 11 MINS.
An animal story for young children features Mother Skunk and her five babies. Willie is the venturesome one who usually finds himself in difficult situations.

SN-225 SNAILS: BACKYARD SCIENCE (Colour) 11 MINS.
Close observation of a common backyard snail reveals a great deal of scientific information: how it moves, where it lives, what it looks like, how it is protected by nature, and many other interesting facts.

SN-122 SNAKES CAN BE INTERESTING 11 MINS.
A brother and sister go fishing with their uncle, and find a bull snake along the way. They take it home and keep it as a pet until it is time for it to hibernate. We learn much about the eating habits of this snake, and how it changes its skin as it grows. Other snakes are studied during a trip to the zoo. Diagrams help us distinguish poisonous snakes from non-poisonous ones.

SN-74 SPIDERS (Colour) 11 MINS.
Shows the habitats, life cycle and adaptations of many kinds of spiders. The film contains good scenes on spinning, food getting and reproduction.

SN-218 SPRING BRINGS CHANGES (Colour) 11 MINS.
In spring, when the sun warms the earth, the world comes alive. Farmers plough their fields and Faith and Mark plant a vegetable garden. Beautiful nature photography compresses in time a wealth of changes in plants and animals, changes that occur so gradually that they are difficult for the child to grasp.

SN-123 SPRING, GLORY OF (Colour) 11 MINS.
Time-lapse photography is used throughout to depict the wonders of nature. The development of the horse chestnut from bud to flower and fruit is clearly shown, as well as the opening of the flowers of the lilac, magnolia, and several others.

SN-142 SPRING IS AN ADVENTURE (Colour) 11 MINS.
A young girl and typical spring activities including watching flowers bud and bloom, waiting for the robin's eggs to hatch, looking at baby turtles and tadpoles in a stream, and planting a garden. The film could be used in lessons in language as well as science.

SN-230 STORY OF THE RED-WINGED BLACKBIRD (Colour) 11 MINS.
Excellent natural photography makes possible close observation of many fascinating activities in the life of the familiar red-winged blackbird: the migratory flight, the courtship ritual, nest-building, defence of the nesting site against enemies, the hatching of young birds.

SN-226 STREAM, THE (Colour) 15 MINS.
The two basic types of stream environments, the erosional and depositional habitats are examined through seasonal changes and along the course of a flowing water system. Examples of both fast

and slow running streams include species of life-forms especially adapted to each. In addition, the positions and interrelationships of aquatic plants and animals in the numerous food chains are described.

SN-231 SUMMER BIRD HIKE (Colour) 10 MINS.
An excellent study of two boys on a typical bird hike shows how to observe and identify common birds in Southern Ontario. This film should be useful in stimulating an interest in bird study.

SN-198 SUN AND HOW IT AFFECTS US, THE (Colour) 11 MINS.
A comprehensive study of the sun is presented, including the sun's size, distance from the earth, physical nature, and its effect on life, weather, and tides on earth. A basic understanding of the probable origin and effects of the corona, prominences, flares, and sunspots is provided through telescopic motion pictures.

SN-47 TEDDY BEARS, LIVE (Koala) 11 MINS.
This film features Australia's little bear-like marsupial, the Koala. It depicts how the strange little animal eats, sleeps, travels and lives.

SN-92 TIMAGAMI RANGER (Colour) 22 MINS.
The film briefly outlines the causes of forest fires and shows the resultant devastation. Sequences depict an actual forest fire in Northern Ontario, and show Ontario's Forest Protection Service in action, demonstrating methods of detection, communication, transportation, and suppression. Lessons are given in the proper use of fire by campers, smokers, and settlers in forest areas.

SN-181 TOADS (Colour) 11 MINS.
One of the few remaining descendants of prehistoric amphibians, the toad has been able to survive. The cycle of life is traced from a water-born to a land-dwelling animal. We see the toad's remarkable means of protection and its ability to live even in desert areas.

SN-97 TREES, SEASONAL CHANGES IN (Colour) 11 MINS.
Classification, seasonal changes, and careful observation of trees are stressed in this film, which compresses the story of a year into a few minutes of time. Flowers, fruit, seeds, buds, and leaves of several common trees are shown and discussed.

SN-73 TURTLE, SNAPPING 11 MINS.
This film presents a very complete study of the snapping turtle. Appearance, food, reproduction, enemies, and many interesting features of its life are shown and described in simple language. Many other forms of water life are seen incidentally.

SN-227 THE TURTLE: CARE OF A PET (Colour) 8 MINS.
By finding out how an animal lives and what it eats, the very young child learns to care for pets.

SN-199 VACANT LOT (Colour) 20 MINS.
The kinds of insect, plant and animal life found on a vacant lot; their habits, modes of life and relation to their surroundings under varying weather conditions.

SN-219 WATER AND WHAT IT DOES (Colour) 11 MINS.
Water is made up of molecules in constant motion. This film demonstrates the changes which occur when substances are dissolved, and the effects of temperature changes. The transitions from a liquid to a gas, and to a solid are clearly illustrated.

SN-220 WE EXPLORE THE FIELD AND MEADOW (Colour) 11 MINS.
On a bright, beautiful morning we take a walk into the field and meadow with Wayne and Kathy. We see many of the plants and animals that live there — wild roses, red clover, grasses, bumblebees, grasshoppers, birds, rabbits and snakes — and we learn that these living things depend upon one another for their needs within the meadow environment.

SN-200 WE EXPLORE THE STREAM (Colour) 11 MINS.
Paul and Marcy explore a stream near their home in order to find snails for their aquarium. They observe many of the plants, birds, fish, and insects that are common to a stream environment and learn of the interdependence of living things. Unusual close-ups show us animals such as the raccoon, bass, crayfish, and others.

SN-221 WHAT DO WE SEE IN THE SKY? (Colour) 11 MINS.
Freddie's curiosity about things he sees in the sky leads him to learn about the sun, moon, planets, stars, and constellations — their relative sizes and distance from the earth, their light, and something of their composition. While learning about the sky, he comes to appreciate its beauty and wonders.

SN-201 WHAT PLANTS NEED FOR GROWTH (Colour) 10 MINS.
Makes effective use of time-lapse photography and revealing close-ups to give children a new appreciation of the marvels of plant growth. Simple laboratory experiments are performed to illustrate the basic needs of plants — for water, light, minerals, air and warmth — and to show how plants react to favourable and unfavourable conditions. Children will be interested in setting up similar experiments and in caring for plants of their own.

SN-222 WHAT'S ALIVE 11 MINS.
Helps the student toward an understanding of the activities that distinguish living from non-living things. Defines things in terms of a set of activities.

SN-81 WILD FOWL IN SLOW MOTION 11 MINS.
This film illustrates North American wild fowl from take-off through flight to landing.

SN-182 WILDLIFE IN THE ROCKIES (Colour) 16 MINS.
After many years of careful conservation, Banff and Jasper National Parks have become vast zoological gardens. This film shows us many intimate views of the creatures of the wild, big and small, that inhabit the forested mountain slopes of these parks. Deer, moose, bear, big-horn sheep, birds, and small animals that live above the tree-line, are natural subjects for close-up camera-shooting against a backdrop of snowy peaks of the Canadian Rockies.

SN-202 WIND AT WORK, THE (Colour) 11 MINS.
This film shows how the earth and our lives are influenced by the natural force of wind. It can be used to present the concepts that air is a substance, and that wind is moving air. Many effects of winds are demonstrated — in shifting sand dunes, rock erosion, helping the farmer, and making weather.

SN-232 WINTER BIRD HIKE (Colour) 12 MINS.
Billy and Dave go on a hike to discover birds which spend the winter in Ontario. They learn about the special habits of the different birds, and something of the interesting characteristics of various species.

SN-183 WONDERS IN A COUNTRY STREAM (Colour) 11 MINS.
Two children search for some of the living things in and around a brook. There are fish where the water runs deep, a garter snake, shadows of insects that walk on water, and a damsel fly sunning itself. They find a young frog, a newt and a baby snapping turtle.

SN-124 WONDERS IN YOUR OWN BACKYARD (Colour) 11 MINS.
This film shows a boy and girl finding a worm, spider, millipede, sowbug, and snail in their backyard. An excellent introduction to the science of zoology at an elementary level.

SN-203 WONDERS OF WATER (Colour) 18 MINS.
Uncle Bob solves the mystery of H_2O for his young friends. He uses electrolysis equipment to separate water into hydrogen and oxygen. Explains molecules and the nature of gases. Discusses the water cycle and evaporation and condensation.

SN-93 WOOD THRUSH, THE (Colour) 11 MINS.
This film depicts the life of the wood thrush in its natural habitat, showing nest building, incubation, hatching, and the relation of the parent birds in the care and feeding of their young.

SN-223 WOODCOCK, THE (Colour) 6 MINS.

The viewer has an opportunity to observe birds' plumage patterns, actual camouflage, nesting and feeding habits and several interesting methods which the woodcock uses to protect the eggs and young birds from enemies.

SN-204 WORMS TO WINGS (Colour) 18 MINS.

Photomicroscopy and time-lapse photography present the life cycle of the anise swallowtail butterfly, which exhibits the characteristics of complete metamorphosis. Describes the role of the butterfly in the pollination of flowers.

SN-143 ZOO BABIES 11 MINS.

The physical characteristics and habits of zoo animals such as baby monkeys, gnus, kudus, lions, peacocks, alligators and bears are depicted in this film. The relationship between the babies and their parents is emphasized. The film shows how the animals get their food, and how they are protected.

SN-205 ZOO BABY ANIMALS (Colour) 11 MINS.

Through this film, children have an opportunity to look behind the scenes at the zoo . . . to see activities in the kitchen and hospital; to see how baby animals are fed and cared for by their keepers. Baby animals featured in the film are the lion, tiger, gorilla, bear, elephant, harbour seal, kudu, llama, Barbary sheep, tapir, and baboon.

SN-184 ZOO FAMILIES (Colour) 11 MINS.

Tommy takes his mother to visit the zoo. They see the lion, monkey, kangaroo, hippopotamus, chimpanzee, and jungle hen families. Tommy is impressed by the care the animal mothers take of their babies.

SN-26 ZOO, FEEDING TIME AT THE 11 MINS.

A picture of the feeding of various animals and birds at an English zoo.

SN-94 ZOO, THE (Colour) 11 MINS.

Presents unobstructed views of animals in an open-air zoo at feeding time. The following are shown, singly and in groups: polar bear, kodiak bear, lion, tiger, kangaroo, alpaca, giraffe, zebra, baboon, sea lion, hippopotamus, rhinoceros, and elephant. The narrative describes the food, native habitat, and general characteristics of each animal.

SN-98 ZOO, WASHING TIME AT THE 11 MINS.

Delightful studies of various animals and birds bathing and swimming.

Science—Physics

SP-24 A IS FOR ATOM (Colour) 22 MINS.

This film gives a simple yet comprehensive explanation of the principles of atomic energy. It indicates the possibilities of its peacetime applications in industry, medicine, agriculture, and science.

SP-2 ACOUSTICS, FUNDAMENTALS OF 11 MINS.

The principles of velocity of sound with some phenomena of refraction and the physiological aspects of audition are illustrated by animation. Absorption of sound by walls of a room and the acoustical treatment of auditoriums are pictured.

SP-1 AERODYNAMICS—PROBLEMS OF FLIGHT 11 MINS.

The use of the plane's controls in taking off, climbing, stalling, gliding, and landing. Superimposed animated drawings show the forces acting on the plane's surfaces.

SP-28 ARCHIMEDES' PRINCIPLE 6 MINS.

This film recreates the events that led to the discovery of Archimedes' Principle and provides examples of the principle within the setting of a modern physics laboratory. By combining historical perspective and present-day practice, the film should encourage a feeling of interest in the subject and a better understanding of its experimental aspects. It is recommended for use in Grade 11.

SP-29 ATOM AND BIOLOGICAL SCIENCE 11 MINS.

The use of radioactivity in several areas of biology is identified and dramatized in this film. Animated drawings help develop an understanding of the principles related to procedures that cannot be seen by the unaided eye.

SP-36 ATOMIC ENERGY 11 MINS.

This film explains, with ingenious animated drawings, the concepts basic to an understanding of atomic energy. It identifies parts and structure of atoms; defines and contrasts electronic or chemical energy and nuclear energy; explains the three known forms of atomic energy release — natural radioactivity, nuclear synthesis and nuclear fission. Illustrations show relationship between atomic energy from the sun and chemical energy stored and released in photosynthesis and combustion.

SP-42 ATOMIC ENERGY—INSIDE THE ATOM 14 MINS.
(Colour)

In this film, several pieces of evidence are presented to suggest that the atom is not an entity in itself, but that there is something inside the atom. Simple experiments with radioactive materials, including a cloud chamber demonstration, illustrate the breaking up of atoms. In animated diagrams we see the structure of an atom, establishing the concept of a central core or nucleus. The film also demonstrates that there is energy inside the atom, and shows several examples of this energy doing work.

SP-23 CELL, THE PRIMARY 11 MINS.
This film shows the construction, operation and use of a primary electric cell. Animation is used to explain the theory of the flow of electrons.

SP-6 ELECTRIC COILS 11 MINS.
A study of the magnetic field about a wire carrying an electric current and the theory of solenoids, electric magnets, induction coils, and electric motors.

SP-20 ELECTRICAL CIRCUITS, ELEMENTS OF 11 MINS.
Demonstrations clarify the concept that electric current is a flow of electrons controlled by circuits. The concept is developed by describing home electrical circuits and by illustrating a short circuit caused by faulty insulation. The film reveals functions of conductors and insulators, and measurements of electric flow by application of Ohm's Law.

SP-4 ELECTRICITY, STORY OF 11 MINS.
Gives a brief history of electricity, with reference to the contributions made by Franklin, Morse, Edison and Marconi. Illustrations of the varied uses of electricity, its production and transmission are given. Spectacular shots of a large city and its "Great White Way" are shown.

SP-30 ELECTRICITY, THE FLOW OF 11 MINS.
This film explains the factors which affect the flow of electricity through a simple electrical circuit, introduces the electron theory, and shows the application of a simple circuit in a home situation.

SP-31 ELECTRICITY?, WHAT IS 16 MINS.
The film presents classical electrostatic experiments, and provides accounts of electromagnetism in the work of Oersted and Faraday. It illustrates some of the achievements of our civilization by showing industrial applications in motors and generators. Diagrams help in depicting the organization of atoms in the latest atomic theory.

SP-5 ELECTRODYNAMICS 11 MINS.
Presents the principles of current electricity; demonstrates induction of electric currents; and indicates the application of induction in the generator and transformer. Explains the difference between electricity and magnetism.

SP-39 ELECTROMAGNETS: HOW THEY WORK 11 MINS.

Every time you make a telephone call, listen to the radio, ring a doorbell, or use a machine that has an electric motor in it, electromagnets are working for you. Through a progression of effective laboratory experiments, this film shows how an electromagnet is constructed and demonstrates several ways in which its strength can be increased.

SP-43 ELECTRONS AT WORK (Colour) 14 MINS.

Presents evidence that electrons exist and that they provide energy for many different kinds of work. Simple experiments and demonstrations illustrate the characteristics of electrons, and interesting examples of electrons at work in television tubes and in electric computers are shown.

SP-38 ELECTROSTATICS 11 MINS.

The nature of repulsive and attractive forces between bodies charged by contact under different conditions is demonstrated. The film treats: the techniques of charging by induction, identification of conductors and insulators, and the use of measuring devices — the electroscope and the electrometer. Reference is also made to atmospheric conditions producing lightning.

SP-44 ENERGY AND WORK (Colour) 11 MINS.

Demonstrates that in science the word "work" means using energy to make something move, or to make something stop moving. Simple illustrations such as moving water, a wrecking ball, or a bowling ball, are used to show that there is energy (kinetic) in all moving objects. Explains that energy can be stored (potential) and that potential energy is stored in many things: a wound-up rubber band, a hanging sandbag, gasoline and other fuels. Demonstrates that energy can be changed from one form to another.

SP-21 ENERGY, NATURE OF 11 MINS.

The scientific concept of energy is explained with illustrations in the fields of atomic energy, electricity, sound, light, and heat.

SP-40 ENGINES AND HOW THEY WORK (Colour) 11 MINS.

Operating principles of various types of engines including steam, gasoline, Diesel, turbine, jet and rocket are explained through the use of animation, models and live action. The film also develops an appreciation for the importance of engines and discusses briefly developments such as the free piston engine and the ionic-propulsion engine.

SP-45 EVIDENCE FOR MOLECULES AND ATOMS (Colour) 19 MINS.

This film illustrates simple and compelling evidence that atoms and molecules exist. It shows that scientists are concerned with many things they cannot see, and explains the value of circumstantial evidence in science. Simple demonstrations and laboratory experiments are used to build a case for the existence of atoms and molecules. Photomicrography, X-ray and live-action photographs are used to illustrate this important concept.

SP-22 FLIGHT, THEORY OF 11 MINS.
Explains basic principles of airplane flight by illustrating the application of physical laws to forces acting on airfoils. First, wind tunnel demonstrations reveal relations of air velocity to lift and drag on flat and cambered airfoils. The film then demonstrates functions of rudder, elevator, and ailerons; and finally illustrates actions of plane when pitching, rolling and yawing.

SP-46 FORCES (Colour) 13 MINS.
This film shows that a force is a push or a pull, that pairs of forces can change the shape of objects, that machines make it possible to change the direction or size of a force, how an impact can transmit a force, and the effects of balanced and unbalanced forces. Familiar situations and simple demonstrations show gravitational, electrical, and nuclear forces.

SP-32 GALILEO'S LAWS 6 MINS.
This film recreates events that led to Galileo's discovery of some of the fundamental laws pertaining to falling bodies. It provides demonstrations that verify Galileo's discoveries and uses special film techniques to make these demonstrations more comprehensible. By combining historical perspective and present-day practice, this film develops interest in the subject, and a better understanding of its experimental aspects. It is recommended for use in Grade 13.

SP-34 GAS LAWS AND THEIR APPLICATION 16 MINS.
This film demonstrates some of the research which led to the discovery of the relationship between temperature, volume, and pressure of gases. Applications of the gas laws are shown in compression, refrigeration, heat engines, and low temperature research.

SP-41 GRAVITY: HOW IT AFFECTS US (Colour) 14 MINS.
This science film vividly illustrates gravity's importance by showing some of the things that gravity does: its action upon our daily activities, its effects on our earth in the universe, and how it would affect a human being on an imaginary trip through outer space. Several film sequences are devoted to the gravitational studies and experiments of Galileo Galilei and Sir Isaac Newton.

SP-7 HEAT—ITS NATURE AND TRANSFER 11 MINS.
Explains in animated drawings the nature of heat and some of the principal ways in which heat is transferred. Illustrates practical applications of heat in home and industry.

SP-8 HEAT AND PRESSURE 11 MINS.

Shows the interrelationships between heat, pressure, and the state of material substances. The principle of refrigeration and the characteristics of liquid air are demonstrated.

SP-18 HEAT, TRANSFER OF 11 MINS.

By means of experiments the film demonstrates the three ways of transferring heat: conduction, convection, and radiation. At the end of each section, common applications to everyday living are given.

SP-47 HOW TO BEND LIGHT (Colour) 12 MINS.

This film introduces the concept that light can be bent by reflection and refraction. A simple demonstration shows that light travels in a straight line, and that objects can be seen because light hits them and is then reflected back to the eye. Demonstrates with the help of mirrors and prisms that light bends when it passes from one material to another, and that lenses can bend light to magnify objects or to focus images.

SP-48 HOW TO MEASURE TIME (Colour) 11 MINS.

In this film, time is shown to be an important scientific concept because of the role it plays in the description of events. It demonstrates the principle that time can be measured by counting the events of a repetitive action. Shows how many devices, such as clocks, oscilloscopes, etc., use this principle to measure time, and describes the importance of measuring time in science.

SP-49 HOW TO PRODUCE ELECTRIC CURRENT WITH MAGNETS (Colour) 11 MINS.

The film demonstrates that electricity and magnetism are closely related: an electric current can produce a magnetic effect, and magnets can be made to produce electric current. This basic principle is applied to electromagnets and generators, and magnets and coils are shown moving in relation to each other, producing enough electricity to light a city.

SP-26 LAWS OF MOTION (Colour) 14 MINS.

Newton's three laws of motion and the important events leading to their discovery are graphically explained. Experiments illustrate the theory and the application of laws, with demonstrations by auto, train, airplane, and gun.

SP-50 LIGHT AND COLOUR (Colour) 14 MINS.

Illustrates that white light consists of many different colours, and that colour depends on the ability of an object to absorb certain colours in light and reflect others back to the eye. Simple demonstrations and experiments show what colour is, how it is related to light, how the eye sees colour, and how colour can give information.

SP-10 LIGHT WAVES AND THEIR USES 11 MINS.

The principles of reflection and refraction with mirrors and lenses are demonstrated. Application of these principles in the human eye and in science is revealed. The presentation is technical.

SP-51 MAGNETIC, ELECTRIC AND GRAVITATIONAL FIELDS (Colour) 11 MINS.

This film has to do with three invisible things: magnetic, electric, and gravitational fields. Simple demonstrations show that although fields are invisible, the effects they have on objects can be observed: the effects of a magnetic field on a compass needle, of the earth's gravitational field on the moon's orbit, and of electric fields on various materials.

SP-33 MAGNETISM 16 MINS.

The laws of polarity, the magnetic field, and terrestrial magnetism are illustrated. Through its effective treatment of elementary magnetism, the film leads to an understanding of atomic fields. Modern applications of magnetism and the important role of magnets in our technological civilization are shown. This film should prove most useful in Grade 11 Physics.

SP-19 MATTER AND ENERGY 11 MINS.

This film shows graphically that everything in the universe is either matter or energy. Matter is presented in its different forms and elements, compounds, and mixtures are defined. Physical and chemical change, the laws of conservation of matter and energy, are visualized by the sound and motion of real life examples, supplementing expert laboratory demonstration.

SP-11 MICROSCOPE, STORY OF THE 11 MINS.

The history of the development of the microscope is given here in an interesting manner. The many contributions of the microscope to man's knowledge of the invisible world are depicted.

SP-37 PREFACE TO PHYSICS (Colour) 14 MINS.

A preview of important aspects of physics is presented with a view to stimulating a greater interest in this subject area. Historical settings, modern laboratory scenes and animated drawings invest this science film with an exceptional degree of educational impact.

SP-12 RADIO MESSAGES, RECEIVING 11 MINS.

This film presents a technical yet simplified account of how radio waves from the air are picked up by an aerial and transformed into sound waves. The principles of the tuning coil, condenser, crystal and ear-phones are explained as simply as possible.

SP-13 RADIO MESSAGES, SENDING 11 MINS.
Film shows the importance of radio in modern life. The next sequence explains the operation and principles of the microphone, transmitter, control room, and amplifier. This is followed by a technical explanation of the mechanism of a broadcasting station. Finally, the "handie-talkie" and other special applications of radio are referred to.

SP-14 SERIES AND PARALLEL CIRCUITS 11 MINS.
An explanation of two types of electrical circuits using animated diagrams. Ohm's Law is illustrated and proved experimentally. Ohms, amperes and voltage are treated in detail.

SP-15 SOUND RECORDING AND REPRODUCTION 11 MINS.
A technical illustrated explanation of the processes of recording sound on a film and reproducing it. All the instruments necessary for recording and reproduction are illustrated and the principle of each explained.

SP-16 SOUND WAVES AND THEIR SOURCES 11 MINS.
Depicts by animation and sound the fundamental concepts of amplitude, frequency, and wave length. Characteristics of sound waves are demonstrated, and a comparison of organ music and human speech is made.

SP-27 TELEVISION: HOW IT WORKS 11 MINS.
This film explains the use of the tube in television production; the method of broadcast; and how the picture is reproduced on the screen.

SP-17 VACUUM TUBES 11 MINS.
A technical treatment of the component parts, construction, and uses of the vacuum tube in radio transmission and reception.

SP-52 VIBRATIONS (Colour) 14 MINS.
The basic principle of vibrations and their importance in many areas of science is demonstrated. Shows that a vibration occurs whenever an action is repeated with a more or less regular rhythm; that sound is the result of vibration; and that every object that vibrates has a natural frequency of vibration. Stop-motion photography helps to visualize the concept that two things are needed to cause a vibration: a force that pulls the vibrating object to a centre position and the natural tendency for a moving object to keep moving.

SP-53 WAVES AND ENERGY (Colour) 11 MINS.
Introduces the important principle that waves can be reflected, that they take time to travel. Explains the meaning of "frequency" and "wave length" and depicts some of the ways in which waves carry information.

SP-54 WHAT IS ELECTRIC CURRENT? (Colour) 14 MINS.
Basic concepts about electricity, electric current, electric charges, and electric circuits. Evidence is given that electric charges are in all materials, that there is an electric current only when electricity has a complete circuit to flow through, and that electricity can flow through a circuit in either direction.

SP-55 WHAT IS SPACE? (Colour) 11 MINS.
Shows that space is everywhere, that it exists in objects that appear solid as well as in outer space, that it is not empty, and that all through space, on earth and in outer space there is movement. The concepts of space on earth and in solid materials are illustrated with familiar examples and simple demonstrations. Animated diagrams explore the concepts of size, distance, and motion in outer space.

SP-56 WHAT IS UNIFORM MOTION? (Colour) 14 MINS.
Illustrates the principle that moving objects move naturally with uniform motion if no forces are acting upon it. Simple demonstrations show that when an object is moving at a constant speed in a straight line, it is moving with uniform motion, and that objects travelling with a uniform motion travel equal distances in equal time. Demonstrates the effect of friction on moving objects.

Physics Series

P-1 PHYSICS, AN EXACT SCIENCE (Colour)
Introduces the various branches of physics usually covered in a one-year course and demonstrates each.

P-2 OPTICAL ILLUSIONS (Colour)
Compares and demonstrates subjective and objective methods of measurement principally through optical illusions.

P-3 UNITS OF MEASUREMENT (Colour)
Defines and demonstrates fundamental and derived units of measurement.

P-4 MEASUREMENT OF DISTANCES AND ANGLES (Laboratory)
Illustrates use of the metric system and demonstrates measurement of lines and angles.

P-5 SLIDE RULE
Teaches beginners by demonstration.

P-6 ALGEBRA AND POWERS OF TEN
Explains simple algebraic equations and use of powers of ten with particular emphasis on their use in physics.

P-7 TRIGONOMETRY
Introduces sine, cosine, and tangent functions applied to a right triangle.

P-8 SPEED AND VELOCITY
Introduces velocity and instantaneous velocity.

P-9 SPEED AND VELOCITY (Laboratory)
Distance and time measurements on small car and train. Data recorded.

P-10 ACCELERATED MOTION (Colour)
Provides formulas and demonstration experiments illustrating uniformly accelerated motion.

P-11 ACCELERATED MOTION (Laboratory)
Steel ball rolls down incline plane. Measurements made and data recorded.

P-12 COMPOSITION OF VELOCITIES
Demonstrates vector aspects of velocity by considering simultaneous velocities.

P-13 RESOLUTION OF VELOCITIES
Velocity as a vector quantity is resolved into two components. Demonstration model used.

P-14 FALLING BODIES
Kinematics of freely falling bodies treated. Demonstrations of falling bodies in vacuum and in air.

P-15 FALLING BODIES (Laboratory)
Measures time and distances for freely falling bodies with high precision. Data recorded.

P-16 NEWTON'S FIRST LAW OF MOTION (Colour)
Demonstration experiments to illustrate concepts of inertia.

P-17 PROJECTILES (Colour)
Demonstrates laws relating to projectiles. Vertical and horizontal projection treated in detail.

P-18 PROJECTILES (Laboratory)
Heights and ranges of projectiles are measured for different elevation angles. For class participation.

P-19 NEWTON'S SECOND LAW OF MOTION
Uniformly accelerated motion demonstrated by small car. Kinematics of motion given.

P-20 THE FORCE EQUATION (Laboratory)
Acceleration of small car measured. For class participation.

P-21 NEWTON'S LAW OF GRAVITATION AND THIRD LAW OF MOTION (Colour)

Formulates both laws and presents demonstrations.

P-22 BALANCED AND UNBALANCED FORCES

Principles of composition of forces presented and demonstrated.

P-23 CONCURRENT FORCES (Laboratory)

Measures magnitudes and direction of forces. Data recorded.

P-24 RESOLUTION OF FORCES

Single forces applied to bodies are resolved into components. Principles are illustrated by experiments.

P-25 RESOLUTION OF FORCES (Laboratory)

Force components on small loaded car are measured and recorded for class use.

P-26 ROTATIONAL EQUILIBRIUM

Applies sets of forces to rigid body and establishes translational and rotational equilibrium.

P-27 PARALLEL FORCES (Laboratory)

Uses two beam balances and a set of weights to apply forces at different points along a meter stick. Measures forces and distances as a class participation experiment.

P-28 CENTRE OF MASS AND CENTRE OF GRAVITY (Colour)

Presents principles and demonstrations of centre of mass and centre of gravity in simple form.

P-29 THE SIMPLE CRANE (Laboratory)

Forces in the tension and compression of members of a crane are measured and recorded.

P-30 EQUILIBRIUM OF RIGID BODIES

Treats and demonstrates forces and torques acting on rigid bodies in equilibrium.

P-31 FRICTION

Treats and demonstrates principles of sliding and rolling friction under various experimental conditions.

P-32 COEFFICIENT OF FRICTION (Laboratory)

Provides measurements of sliding and rolling friction for several different materials and records data.

P-33 STREAMLINING

Laminar flow and turbulent flow are treated and demonstrated with models.

P-34 WORK AND ENERGY

Principles of work and energy are formulated and demonstrated by models.

P-35 CENTRE OF GRAVITY (Laboratory)

Combinations of regular shaped bodies are balanced and then set into rotation. Data recorded for class use.

P-36 ENERGY AND POWER

Principles of kinetic energy and power are treated and demonstrated by mechanical models.

P-37 HORSEPOWER (Laboratory)

The horsepower of an electric motor is measured. Class records data.

P-38 CONSERVATION OF ENERGY

Energy conservation as applied to kinetic and potential energy explained with experimental demonstrations.

P-39 CONSERVATION OF MOMENTUM

Principles of impact, force, impulse, and momentum are developed and demonstrated by experiments.

P-40 ENERGY AND MOMENTUM (Laboratory)

Forces involved in driving a nail into a block of wood are measured and recorded by class.

P-41 LEVERS

Principles of first, second, and third class levers are given with several demonstrations for each.

P-42 LEVERS (Laboratory)

First, second, and third class levers are set up, and applied equilibrium forces are measured.

P-43 ANATOMICAL MECHANICS

Principles of mechanics are applied to the human body. Working models are shown.

P-44 MACHINES

Principles of levers, wheels, pulleys, gears, and combinations of same are explained and demonstrated.

P-45 BALLISTICS (Laboratory)

Impulses for various rifle bullets are measured, and muzzle velocities determined. Class observes and records data.

P-46 CIRCULAR MOTION

Principles of rotation, centripetal, and centrifugal forces are presented and demonstrated by numerous experiments.

P-47 CENTRIPETAL FORCE (Laboratory)
Centripetal forces acting on rotating mass are measured with different speeds and compared with theory.

P-48 DYNAMICS OF ROTATION
Angular acceleration of rigid bodies in rotation is visually demonstrated.

P-49 CONSERVATION OF ANGULAR MOMENTUM
Internal changes within rotating bodies are applied to mechanical models demonstrating conservation laws.

P-50 MOMENT OF INERTIA (Laboratory)
Angular accelerations of several regularly shaped bodies are measured and their moments of inertia determined.

P-51 ATOMIC THEORY OF MATTER (Colour)
Atoms and molecules, as they exist in solids, liquids, and gases, are explained with models.

P-52 ELASTICITY (STRESS, STRAIN, YOUNG'S MODULUS)
The elasticity of solids, as defined by Hooke's Law and Young's Modulus, is introduced and explained.

P-53 HOOKE'S LAW (Laboratory)
Measurements on a stretching of a wire are made, Hooke's Law is demonstrated, and Young's Modulus is determined.

P-54 BENDING, TWISTING, AND BOUNCING (Colour)
Elastic properties of solids and Hooke's Law are demonstrated by the bending of beams, twisting of rods, and the bouncing of solid spheres.

P-55 PRESSURE IN A LIQUID
Pressure in a liquid, density of liquids, the concepts of pressure and density, as they pertain to water, are explained and demonstrated.

P-56 PRESSURE IN LIQUIDS (Laboratory)
Liquid pressure is measured at various depths in fresh water and comparisons are made.

P-57 ARCHIMEDES' PRINCIPLE
Principles of buoyancy, as applied to floating and submerged objects, are explained and demonstrated.

P-58 DENSITY AND WEIGHT DENSITY (Laboratory)
Density and weight density of five solids are determined experimentally.

P-59 SURFACE TENSION

The phenomenon of surface tension in liquids is explained and demonstrated by numerous experiments.

P-60 THE ATMOSPHERE

The physical properties of the earth's atmosphere are discussed. Atmospheric applications of the principles are shown.

P-61 WEIGHING THE AIR (Laboratory)

A volume of air is measured and weighed, and density of air is determined.

P-62 FLUIDS IN MOTION

Torricelli's Theorem is explained. Fluid friction and viscosity, as applied to fluids in motion, are discussed and demonstrated.

P-63 FLUID FRICTION (Laboratory)

The velocity head, friction head, and pressure head, as applied to water flowing through a pipe, are measured.

P-64 BERNOULLI'S PRINCIPLE (Colour)

Many apparent paradoxes, as they apply to flight, the curve of a pitched ball, etc., are explained and demonstrated as illustrations of Bernoulli's Principle.

P-65 VIBRATIONS AND WAVES

Period, frequency, and amplitude of vibration objects, as they pertain to wave motion in general, are introduced and demonstrated.

P-66 THE PENDULUM (Laboratory)

The periods of several simple pendulums are measured, and the acceleration due to gravity is calculated.

P-67 TEMPERATURE AND EXPANSION

Various methods of measuring temperature are demonstrated by means of mercury thermometers, electrical resistance, thermometers and thermopiles. The thermal expansion of solids is demonstrated.

P-68 THERMAL EXPANSION (Laboratory)

The temperature of different metal rods is raised and the resulting expansion is measured.

P-69 HEAT CAPACITY AND CHANGE OF STATE

The concepts of specific heat, thermal capacity, and their relation to changes from solids to liquid to gaseous states are discussed and demonstrated.

P-70 HEAT TRANSFER (Colour)

Heat transfer by conduction through solids and convection by liquids and gases is demonstrated.

P-71 SPECIFIC HEAT (Laboratory)

Specific heat and thermal capacity of a metal are determined by calorimetry.

P-72 RADIANT HEAT

Transfer of heat by radiation is demonstrated. Kirchhoff's radiation laws and Prevost's law of heat exchange are discussed.

P-73 LATENT HEAT OF FUSION (Laboratory)

The heat required to melt a measured quantity of ice is determined by calorimetry.

P-74 CHANGE OF STATE

The effect of pressure on the melting point of ice, the absolute and relative humidity of the atmosphere, and the general effects of pressure on the melting and boiling points are demonstrated.

P-75 REFRIGERATION AND GEYSERS (Colour)

The general principles of refrigeration are presented. Water simultaneously boiling and freezing at the same temperature is shown. An actual periodically spouting geyser demonstrates the effect of pressure on the boiling point of water.

P-76 NEWTON'S LAW OF COOLING (Laboratory)

Cooling curves of two cups are determined, under different initial and final conditions, as demonstration of Newton's Law of Cooling.

P-77 HEAT ENERGY AND GAS LAWS

Transformation of mechanical energy into heat, mechanical equivalent of heat, the general gas law, Boyle's Law, Charles' Law, are explained.

P-78 MECHANICAL EQUIVALENT OF HEAT (Laboratory)

Mechanical energy is transformed into heat energy by means of a motor-driven drum, and the mechanical equivalent of heat is determined.

P-79 LIQUID AIR (Colour)

Low temperatures are discussed, the liquefaction of air is explained, and the changes of physical properties of solids and liquids, cooled to liquid air temperatures, are demonstrated.

P-80 HEAT ENGINES

The principles of the steam engine, internal combustion engines, gas turbines, and rocket engines are demonstrated.

P-81 BOYLE'S LAW (Laboratory)

The pressures on a fixed mass of air at different volumes, but at constant temperature, are measured, thereby demonstrating Boyle's Law.

P-82 SOUND WAVES
Experimental demonstrations of simple harmonic motion, transverse and longitudinal waves, pitch, frequency, and speed of sound are given.

P-83 FREQUENCY OF TUNING FORK (Laboratory)
Vibograph method is used to measure the frequency of a tuning fork. Class observes and records data.

P-84 RESONANCE, BEATS AND DOPPLER EFFECT
Experimental demonstrations of tuning forks in resonance, significance of beat notes, and explanation of Doppler effect are given.

P-85 VIBRATING STRINGS (Laboratory)
Standing waves on a vibrating string are measured in terms of frequency, wave length, and wave velocity.

P-86 VIBRATING STRINGS AND AIR COLUMNS (Colour)
Relations between frequency, velocity, wave length, amplitude, and wave motions as they apply to standing transverse waves explained.

P-87 WIND AND PERCUSSION INSTRUMENTS
Demonstrations of vibrating air columns, organ pipes, reed mouthpieces, xylophone, bars, bells, and cymbal plates.

P-88 RESONATING AIR COLUMNS (Laboratory)
Standing longitudinal waves produced in a vibrating air column are measured.

P-89 SOUND ENERGY AND HEARING
Demonstrations of sound energy, its relation to loudness, decibels, the inverse square law, and the human ear as a detector are given.

P-90 THE SCIENCE OF THE MUSICAL SCALE (Colour)
Vibration frequencies of the diatonic, chromatic, and equal tempered scales are described along with chords, harmony, and dissonance.

P-91 SPEED OF SOUND (Laboratory)
Standing longitudinal waves in vibrating gas columns are measured and speed of sound in air and other gases is determined.

P-92 THE QUALITY OF MUSICAL SOUNDS
Relationship between fundamentals and harmonics as they pertain to quality of musical instruments and the human voice is demonstrated.

P-93 THE NATURE OF LIGHT (Colour)
Sources of light, straight line propagation, pin-hole camera, and speed of light are explained and illustrated.

P-94 LIGHT SOURCES AND ILLUMINATION (Colour)
Introduction to inverse square law. The principles of photometry as a means of determining intensity of light sources, luminance, and illuminance are presented.

P-95 PHOTOMETRY (Laboratory) (Colour)
Intensities of a number of light sources are determined by using a photometer.

P-96 REFLECTION FROM PLANE SURFACES (Colour)
The law of reflection, both internal and external, from glass as well as water surfaces, is demonstrated by a number of different experiments.

P-97 REFLECTION FROM PLANE SURFACES (Laboratory) (Colour)
The law of reflection is demonstrated by means of objects and their images as reflected in a plane mirror.

P-98 REFLECTION FROM CURVED SURFACES (Colour)
The image-forming properties of concave mirrors are demonstrated and the object-image formula is introduced.

P-99 REFRACTION OF LIGHT (Colour)
Refraction of light at smooth glass and water surfaces is demonstrated. Snell's Law is introduced. Deviation of light by prisms having different angles is demonstrated.

P-100 INDEX OF REFRACTION (Laboratory) (Colour)
The Hartl Disc is used to measure angles of incidence and corresponding angles of refraction for the purpose of verifying Snell's Law.

P-101 LENSES (Colour)
The principles of converging and diverging lenses are introduced. The object-image formula is demonstrated as well as conjugate foci, real and virtual images.

P-102 STUDY OF LENSES (Laboratory) (Colour)
The focal lengths of several converging lenses are determined, and the object and image distances for several arrangements of lenses are measured.

P-103 DISPERSION (Colour)
The total reflection of light and internal reflection at glass and water surfaces are introduced and demonstrated. Also, the dispersion of white light into its spectrum is illustrated.

P-104 COLOUR (Colour)
The principles of the additive method of colour mixing are illustrated by coloured lights, and the principles of subtractive colour mixing are demonstrated by colour pigments.

P-105 MAGNIFYING POWER OF A LENS (Laboratory) (Colour)

The images of small objects, as seen through lenses of short focal length, are measured.

P-106 THE EYE AND OPTICAL INSTRUMENTS (Colour)

The lens systems of cameras, telescopes, microscopes are introduced. Optical defects of the nearsighted and farsighted eye, and means of correcting such defects, are explained and demonstrated.

P-107 PRINCIPLES OF THE MICROSCOPE (Laboratory) (Colour)

Magnified images of small objects, as seen by two lenses simulating a microscope, are measured. Focal lengths, object distances, and image distances are measured.

P-108 DIFFRACTION AND INTERFERENCE (Colour)

The diffraction of light, around small objects by a double slit, and by a diffraction grating, is presented in detail, and in each case, is demonstrated by an experiment.

P-109 POLARIZATION OF LIGHT (Colour)

Polarization of light by reflection, by double refraction in calcite and by polaroid is introduced and demonstrated.

P-110 RAINBOWS, BLUE SKIES AND RED SUNSETS (Colour)

Principles of the primary and secondary rainbow are presented and demonstrated. Halos around the sun and moon are discussed. The blue sky and red sunset are explained and demonstrated by a single experiment.

P-111 ELECTRICITY AT REST

Demonstration experiments of static electricity and forces between electrically charged bodies are given. Electroscopes and electrometers are demonstrated.

P-112 COULOMB'S LAW—ELECTROSTATICS

Law of forces between electrical charges is discussed. Charging by induction and discharging by points are demonstrated.

P-113 ELECTRICITY IN MOTION (Colour)

Principles of the voltaic cell, battery cells in general, the dry cell, and storage battery are presented with demonstrations.

P-114 ELECTROMOTIVE FORCE OF A BATTERY CELL (Laboratory)

The electromotive force of battery cells, composed of different electrolytes and electrodes is measured.

P-115 OHM'S LAW
Relation between voltage, current, and resistance is demonstrated and treated in detail.

P-116 SERIES CIRCUITS (Laboratory) (Colour)
Law is applied to combinations of resistors connected in series.

P-117 PARALLEL CIRCUITS
Ohm's Law and Kirchhoff's Law are demonstrated by combinations of resistors connected in parallel.

P-118 THE ELECTRIC FIELD AND POTENTIAL
Definitions and the meanings of electrical potential, potential differences, electrical field, and intensity are explained and demonstrated.

P-119 PARALLEL RESISTANCES (Laboratory) (Colour)
The current through, and potential differences across, resistors connected in parallel are measured. Ohm's Law and Kirchhoff's Law are applied.

P-120 CAPACITANCE
The principles of capacitance and the construction of fixed variable capacitors are presented and demonstrated.

P-121 THE POTENTIAL DIVIDER (Laboratory)
Slide wire resistance is used to obtain variable voltages from a fixed source of electromotive force.

P-122 MAGNETISM
Properties of bar and horseshoe magnets and the principles of magnetic induction are discussed and demonstrated.

P-123 MAGNETIC FIELDS (Colour)
Magnetic fields around permanent magnets and the earth as a magnet are described, mapped out, and demonstrated.

P-124 WHEATSTONE BRIDGE (Laboratory)
The electrical resistance of a number of different kinds and sizes of wire is determined.

P-125 EFFECTS OF ELECTRIC CURRENTS
The heating effects and magnetic effects of electric currents are explained and demonstrated.

P-126 ELECTRICAL EQUIVALENT OF HEAT (Laboratory)
Electric current and voltage supplied to a standard light bulb and the heat produced by the expended electrical energy are measured. From these the electrical equivalent of heat can be calculated.

P-127 ELECTRIC MOTORS

The principles by which a magnetic field, exerting a force on a current carrying wire, are studied and demonstrated. The principles are also applied to the ammeter and voltmeter.

P-128 MAGNETIC INDUCTION

Magnetic field, in and around current-carrying wires, coils, solenoids, and electromagnets are described, and methods of calculation presented.

P-129 A STUDY OF MOTORS (Laboratory)

Principles of the electric motor are described and demonstrated by actually assembling a small laboratory electric motor which operates.

P-130 INDUCED ELECTRIC CURRENTS

The principles of induced electric currents, beginning with Michael Faraday's discovery, are presented and then applied to the design of an electric generator. Alternating current is discussed along with eddy currents and Lenz's Law.

P-131 COULOMB'S LAW—MAGNETISM (Laboratory)

Specially designed magnets are used on a hibbert balance. From measured forces between magnets, the inverse square law for magnetic poles can be verified.

P-132 TRANSFORMERS

Principles of induction coils, closed and open core transformers, and the long distance transmission of electrical energy over power lines are discussed and demonstrated.

P-133 ALTERNATING CURRENT THEORY

The concepts of inductance, inductive reactance, and impedance are introduced as fundamental principles relating to alternating currents. Levitation is demonstrated with an operating levitator.

P-134 TRANSFORMERS (Laboratory)

Voltage measurements on the primary and secondary coils of a transformer are made. Coil combinations, involving step-up and step-down transformers, are used.

P-135 DISCOVERY OF THE ELECTRON

The general appearance of high voltage electrical discharges in partially evacuated tubes is demonstrated. Straight line propagation and momentum of cathode rays are demonstrated.

P-136 ELECTRONIC CHARGE AND MASS

The bending of cathode rays in an electric field and in a magnetic field is described and demonstrated. These experiments show that cathode rays are negatively charged particles. Millikan's oil drop experiment is described in some detail.

P-137 THE ELEMENTS AND THEIR ISOTOPES

Thomson's mass spectograph and his discovery of neon isotopes are described. Isotopes and their relative abundance are discussed.

P-138 ELECTRONIC CHARGE TO MASS RATIO (Laboratory)

A beam of electrons, from an electron gun, is bent in a magnetic field, and measurements of orbit radius, accelerating voltage, magnetic field and current are made. These are for the purpose of calculating e/m for electrons.

P-139 LIGHT SOURCES AND THEIR SPECTRA (Colour)

The four general types of spectra are described and demonstrated. These are continuous emission, continuous absorption, line emission, and line absorption spectra.

P-140 WAVE LENGTHS OF SPECTRUM LINES (Laboratory)

Using a diffraction grating the spectrum lines of mercury vapour and sodium vapour are measured. From the results the wave lengths can be calculated.

P-141 X-RAYS (Colour)

The discovery of x-rays by Roentgen and the construction and principles of x-ray tubes are discussed. The principles by which x-ray photographs are made are demonstrated.

P-142 RADIOACTIVITY

The discovery of radioactivity by Becquerel, the ionization of alpha, beta, and gamma rays are discussed. The principles of the Wilson Cloud Chamber are explained and demonstrated.

P-143 RADIOACTIVITY MEASUREMENTS (Laboratory)

The characteristic plateau curve for a Geiger-Mueller counter is determined experimentally, and measurements are made on a counting rate meter to verify the inverse square law.

P-144 ELECTROMAGNETIC WAVES

The Leyden jar and the discovery of oscillating circuits are described and demonstrated. Electrical resonance, the propagation of electromagnetic waves, and the principles of the Tesla coil are described and demonstrated.

P-145 VACUUM TUBES (Colour)

The historical development of wireless and radio from Marconi to the De Forest Audion is covered.

P-146 CHARACTERISTICS OF VACUUM TUBES (Laboratory)

Measurements of grid-voltage and plate current applied to the elements of a triode vacuum tube are made. From these, double characteristic curves are to be plotted.

P-147 OSCILLATORS, AMPLIFIERS, AND RADIO

Electrical circuits using triode vacuum tubes as amplifiers and as oscillators are described. Simple radio transmitter and principles of a loud speaker are treated.

P-148 THE PHOTOELECTRIC EFFECT (Colour)

The phenomenon of the emission of electrons from metals, by the action of light, is demonstrated, and the explanation through the Einstein photoelectric equation is presented. Transmission of sound over a light beam is demonstrated.

P-149 ELECTROMAGNETIC WAVES (Laboratory)

WHF electromagnetic wave lengths are shown by standing waves on a conductor. Wave length of microwaves is measured by reflection from a plane surface.

P-150 RADAR AND TV

The echo effect of microwaves is described, and the use of wave guides is explained. The principles of scanning and of the image orthicon, as used in television, are presented.

P-151 GEIGER-MUELLER AND SCINTILLATION COUNTERS (Laboratory)

The counting rate capabilities of these two counters are studied. The resolution time of the Geiger-Mueller counter is determined from counting rate measurements.

P-152 THE BOHR ATOM

The Rutherford scattering experiments of alpha particles by thin metal films are described, and then demonstrated by a mechanical model. The principles of the Bohr atom of hydrogen are given.

P-153 ELECTRON SHELL STRUCTURE

The principles of the Bohr atom are extended to the other elements of the periodic table. Numbers of electrons in the various shells are described. The principles of the Thomson shell model are demonstrated by using small magnets floating in water.

P-154 PHOTON COLLISIONS AND ATOMIC WAVES

The photoelectric effect and Compton effect are discussed and demonstrations of the particle aspects of photons. The DeBroglie waves, as they apply to the Davisson-Germer experiment, and the hydrogen model are presented as illustrations of wave aspects of atomic particles.

P-155 ELECTRON OPTICS

Reflection of electrons in a uniform electric field is compared with the refraction of light and Snell's Law. Electron lenses of various shapes and designs are discussed and then applied to an electron gun, the oscilloscope, the infrared telescope, and the electron microscope.

P-156 NUCLEAR DISINTEGRATION

Rutherford's discovery of induced nuclear disintegration, Chadwick's discovery of the neutron, Einstein's mass-energy equation, and the relations among different forms of atomic energy are described and illustrated.

P-157 COSMIC RAYS

A brief history of the early experiments in cosmic rays is given. This is followed by a discussion of the discovery of the positron, the prediction and observation of electron pair production, and a description of Cosmic ray showers and the continuous Wilson Cloud Chamber.

P-158 ATOMIC ACCELERATORS (Colour)

Begins with the Cockroft-Walton experiment, then describes the cyclotron, Van de Graaff generator, betatron, and linear accelerator. A working mechanical model of a cyclotron is demonstrated.

P-159 RADIATION MEASUREMENTS (Laboratory)

The absorption of penetrating radiation by matter is described. Measurements of the absorption of beta and gamma rays, by solids, are made by means of a Geiger-Mueller counter.

P-160 TRANSMUTATION (Colour)

The disintegration and transmutation of atomic nuclei, produced by high energy atomic particles from typical accelerators, are described. Neutron disintegration and the discovery of mesons are discussed.

P-161 INSIDE THE NUCLEUS AND FISSION (Colour)

Binding forces between nucleons; the nuclear barrier and potential well model of nuclei; and the transuranic elements are described. A working mechanical model of a nuclear potential barrier is used to demonstrate nuclear capture of high energy particles.

P-162 NUCLEAR ENERGY (Colour)

Describes fusion of hydrogen nuclei as a source of solar energy, the chain reaction of uranium nuclei, and principles of critical mass relating to atomic bombs and nuclear power plants. The mouse-trap experiment is used to demonstrate a chain reaction and a block model to illustrate an atomic pile.

Social Studies

Africa

SS-329 AFRICA, EAST (Colour) 22 MINS.

Scenes of various parts of the East African countries and coasts are included in this film.

SS-198 AFRICA, SOUTH (RICHES OF THE VELDT) 22 MINS.

Portrays the industries of the Union of South Africa. The chief sequences depict a native village, the city of Johannesburg, the climatic areas and types of agriculture, scenes in the Rand gold mines and in the diamond mines at Kimberley.

SS-584 AFRICAN CONTINENT: TROPICAL REGION (Colour) 14 MINS.

Tropical Africa today is a region of great social change, of tremendous potential wealth, and of great promise for the future. Major resources and products of the mountainous Eastern Highlands, the great grassy Savanna and the rain forests of the Congo Basin and the Guinea Coast are presented.

SS-48 CONGO, PEOPLE OF THE 11 MINS.

A map of Africa shows the region of the Congo river and the location of the Mangbetu people. Views of the jungle and native houses suggest the dense vegetation and heavy rainfall of this region. The film shows a native family preparing a meal of cassava roots, bananas and fish, all previously obtained by younger members of the family. The skills of the natives are displayed in hairdressing, ivory carving, decorative painting, and the making and playing of a musical instrument.

SS-590 CONTINENT OF AFRICA: LANDS BELOW THE SAHARA (Colour) 22 MINS.

A comprehensive study of central Africa is presented, showing causes and effects of Africa's many political and social revolutions, as well as the physical geography of the continent. The contrast in the ways of life of its indigenous peoples, and the non-African's role in the development of the country, help provide a foundation for an understanding of the problems confronting the new nations in their struggle for recognition.

SS-592 EAST AFRICA (Kenya, Tanganyika, Uganda) (Colour) 21 MINS.

The variety and natural beauty of the region's physical features are shown, as well as the influence of topography on settlement and economic development. Different peoples who live there are pictured in their various activities, as they face their problems in a difficult period of transition.

SS-593 EGYPT: CRADLE OF CIVILIZATION (Colour) 12 MINS.
The culture of ancient Egypt is surveyed, and its contributions to Western civilization are examined. How the Egyptian way of life evolved from a primitive tribal culture to an organized society under a single powerful ruler is depicted. Included in the film are illustrations of Egyptian achievement in art, architecture, medicine, astronomy and mathematics.

SS-550 LIFE IN AN OASIS (Colour) 11 MINS.
The relationship of an oasis environment to daily life is dramatically shown in this film — the irrigation farming, the building of houses of mud bricks, the constant fight against wind and sand. The film contrasts earlier, natural oases with present-day, man-made oases where modern technology is used to locate water, drill wells, build fertilizer factories, and prepare the earth for planting.

SS-551 LIFE IN ANCIENT EGYPT (Colour) 29 MINS.
Architecture, art and everyday objects have been woven together to portray the life of Ancient Egypt. Although the whole span of Egyptian civilization is referred to, the film is mainly concerned with the period known as the New Kingdom (1580 to 1090 B.C.). It has been assumed that the pupils already have been taught something of the ancient civilization and of the culture, technical achievements and lives of the people.

SS-278 MEDITERRANEAN AFRICA (Colour) 11 MINS.
A geographical and historical survey of the narrow and limited fertile area of Africa along the Mediterranean coast is revealed in good colour sequence.

SS-280 NILE VALLEY, LIFE IN THE (Colour) 11 MINS.
An account of the Nile Valley is presented — the river, its source; the people that live on its banks; their ancient, but still common customs; the pyramids, and other heritages from the past.

SS-221 NOMAD PEOPLE, LIFE OF 11 MINS.
The desert tribes, moving in search of pasture and water, and following the herds that provide food and clothing, have had great influence on the course of history. From them have come many of our traditions and cultural roots. The picture brings to the classroom a simple treatment of the desert nomads.

SS-289 SAHARA, LIFE IN THE (Colour) 16 MINS.
This film shows us the customs of the people of the desert, and their dramatic struggle with the heat and the sand. We learn of their complete dependence on water for irrigation, and for life itself.

SS-411 UNION OF SOUTH AFRICA, THE 16 MINS.
(Its Land and People) (Colour)
This is a comparison of three ways of life in the Union of South Africa: that of the native tribes still living in primitive fashion on the reserves; that of the Boer farms in which the natives have begun to assimilate white culture; and that of the mining communities and cities in which natives are in the process of adopting white culture. Within these culture patterns, the film describes the topography, climate, resources, and products of the region.

SS-636 WEST AFRICA: NIGERIA (Colour) 22 MINS.
This film shows the problems faced by the new nations of West Africa dynamically mirrored (and magnified) by those of Africa's most populous country, Nigeria. It reveals what Nigerians are doing — and have done — to create unity out of diversity of tribal, religious, and economic traditions. Through visualization of agricultural and mining activities, the film also shows the great geographical diversity of this region.

Asia

SS-302 ARABIAN CHILDREN (Colour) 16 MINS.
The film starts in Saahab, a town in Jordan, early in the morning. Sequences reveal the work of the members of the family; scenes at school; household activities; afternoon chores; and evening pleasures.

SS-354 BOY OF INDIA (Colour) 11 MINS.
This is the story of Rama, an eight-year-old boy who lives with his family on a tea plantation in Assam, India. Accompanying his father, a mahout, to learn how he handles his work elephant, Rama for the first time works with the elephant Gunda as she pulls a stalled tea truck from the stream.

SS-417 BURMA, PEOPLE OF THE RIVER (Colour) 14 MINS.
This film explores the varied regions and ways of living in the new nation of Burma — the large rivers that serve as highways; the rice fields in the delta and river valleys; the jungle that yields rich harvests of teakwood and bamboo; the colourful village life; and the city of Rangoon, centre of commerce, transportation, and ancient culture.

SS-37 CHINA, CHILDREN OF 11 MINS.
This film shows a typical day in the life of the Lee family in Kwan Shin village in Western China. Early morning life is depicted in the village — transportation, stores, and a lumber yard. The occupations of the people and the life of the children both at school and at play are revealed.

SS-356 CHINA: THE LAND AND THE PEOPLE (Colour) 16 MINS.

Stressing the essential characteristics and differences between North and South China, this film presents an overview of the country whose population is greater than that of any other area in the world, and accents the importance of agriculture to the Chinese. Some indication is given of a trend towards industrialization in China.

SS-336 INDIA, FARMERS OF 16 MINS.

In this film of the Middle Ganges Valley the principle is developed that life in densely populated, underdeveloped lands is marked by great poverty, crowded living conditions, and often famine and disease.

SS-429 INDIA: INTRODUCTION TO ITS HISTORY (Colour) 16 MINS.

An overview of Indian history is presented, from the legendary conquests by Aryan invaders about 2,000 B.C. through the long struggle for freedom reaching its climax under Gandhi's leadership, to the triumphant declaration of independence in August, 1947. The film describes the nature and influence of the major religions of India; the artistic monuments and contributions of each dynasty; and the cultural development of the people in different regions of the vast sub-continent.

SS-475 INDIA: THE LAND AND THE PEOPLE (Colour) 11 MINS.

This film develops fundamental concepts of the geography and people of India, including topography, cultural heritage, typical village and farm life, religions of important groups, influence of Gandhi, and present-day problems.

SS-476 INDONESIA—NEW NATION OF ASIA (Colour) 16 MINS.

This film traces the history of Indonesia from Dutch rule through independence. The way the people live and work, think and feel, is fascinatingly communicated. We come to understand the problems of a new nation, and as the film closes, there is evidence of progress toward the goal of providing security and a rising living standard for Indonesia, New Nation of Asia.

SS-314 IRAN (Colour) 16 MINS.

Evidence of its past glory is shown in the ruins of the palace of the emperor Darius. The vastness of this first great empire is revealed. Its second golden age under the Moslem leadership of Shah Abbas is depicted. The influence of Western ways of thought and patterns of living in recent times is also shown.

SS-619 JAPANESE BOY: STORY OF TARO (Colour) 20 MINS.

A touching story is presented of a Japanese child who loses a friend, gains a treasured possession, and learns that growing up often means sacrificing one end to gain another. Set against the magnificent mountains of central Honshu, the film takes us into a Japanese home and school, revealing the attitudes, customs, and problems of a farm family living on the edge of a city, and offering insights into the Japanese character.

SS-274 JAPAN, THE LAND AND THE PEOPLE (Colour) 11 MINS.

By means of maps and animation the location and surface conditions of this small land, which supports eighty million people, are made clear. Japanese children and adults take part in the story. The activities, industries, and trade of the people are depicted.

SS-275 JAVA, TROPICAL MOUNTAIN ISLAND 22 MINS.

This film presents the Island of Java in its tropical setting and portrays its abundant wealth. Through the eyes of four trainmen, we get a clear picture of the country from the coastal plains to the mountain slopes. Both urban and rural scenes show the people at work on the land and in the various industries.

SS-177 MALAY PENINSULA, THE (Colour) 11 MINS.

A tour of the entire peninsula shows primitive native methods and modern industrial techniques combining to produce precious raw materials for the rest of the world. The film also provides a sound lesson in intercultural relations by showing how Hindus, Moslems, Buddhists, and Christians live and work side by side.

SS-484 MICHIO, SCHOOLBOY OF JAPAN (Colour) 14 MINS.

A day in the life of a Japanese schoolboy. Michio and his classmates learn about cleanliness in their science class when they study soapsuds through microscopes and later carry out a soap making experiment.

SS-340 MIDDLE EAST, THE (Colour) 16 MINS.

This regional geography film provides an overview of this important area. The lands, people, homes, natural resources, and industries are shown as they are today.

SS-344 PAKISTAN 14 MINS.

Dr. Sorensen was advisor to the Pakistani government, and out of his experience grew a film, a geographer's view of the republic of Pakistan, a country of seventy million Mohammedans living on the crowded subcontinent of India.

SS-293 SINGAPORE 11 MINS.

Activities in the strategic port of Singapore are shown. Maps illustrate its position and give various features of the island. Natural resources and industries are also depicted.

SS-574 THAILAND, LAND OF RICE (Colour) 14 MINS.

From the city of Bangkok — centre of commerce, government, and the spiritual life of the nation — to the fertile river valley in which abundant rice crops are produced, the film presents a richly varied overview of Thailand and its people. Includes sequences on rice farming: the way of life of a typical farm family; the floating market on Bangkok canals; and the busy traffic in Bangkok harbour.

SS-575 TURKEY—A MIDDLE EAST BRIDGELAND (Colour) 18 MINS.

Travelling by bus through Turkey, two boys observe modern developments in transportation, manufacturing, reforestation projects and dams to provide water for irrigation and electric power. They also see something of the mining industry, and catch a glimpse of work on the farms. But more important is the understanding of Turkey's strategic position as a bridgeland between Asia and Europe.

SS-508 TURKEY: A STRATEGIC LAND AND ITS PEOPLE (Colour) 11 MINS.

The location of Turkey between Asia and Europe and astride Russia's water route to the Black Sea gives it a strategic political importance. The climate and geographic features, natural resources and industries in relation to the Turkish people are depicted. We see the beginnings of Westernization as introduced by Ataturk, and the continuing changes taking place in modern Turkey.

Australia

SS-206 AUSTRALIA (Colour) 11 MINS.

This film surveys the geographic character of the continent, shows the inter-relations of topography, climate, people, industry, and agriculture, and describes the principal exports and imports.

SS-251 AUSTRALIA, GEOGRAPHY OF 11 MINS.

The advanced geography of Australia is presented — winds, wet and dry areas, rural resources, manufacturing, and natural resources. Animated maps are used extensively.

SS-504 AUSTRALIA, THIS LAND (Colour) 24 MINS.

Using seven different narrators, each describing his own view of Australia, this film reviews the early settlement, plant and animal life, natural resources, cities, and industries of the country. An excellent introduction to the detailed study of Australia is provided in this film.

SS-488 NEW ZEALAND: THE LAND AND THE PEOPLE (Colour) 11 MINS.

A trip through New Zealand's North and South islands shows that this country of mountains, forests, and grasslands is a modern nation whose people share many of the customs of all English-speaking people. Exceptional photographic views show us the livestock and dairying industries, the busy port cities, and the activities and recreation of the people — of both European and Maori ancestry.

Europe

SS-7 ALONG THE LIFE LINE OF THE BRITISH EMPIRE 11 MINS.

The trade route through the Mediterranean Sea and the Suez Canal is pictured in this film. Malta and Gibraltar are also featured, with some history of these Empire outposts included. There are various scenes of the people and their daily occupations.

SS-388 BOY OF THE NETHERLANDS, A (Colour) 11 MINS.

This is the story of Willem, a Dutch boy who travels from his farm home by barge to Amsterdam to buy a new chain for his bike. He shares the life of the barge family and enjoys the sights of old and new Holland as seen along the canal. Arriving in the city, he buys a surprise for Katrien, the little barge girl.

SS-542 FRANCE AND ITS PEOPLE (Colour) 14 MINS.

The surroundings, traditions, attitudes, and ways of earning a living in a single French family reveal many facts of life in France today. The blending of an old heritage and modern ways is shown in the grandeur of historic buildings in Paris and the quiet of a Normandy farm.

SS-171 GREECE: ON MEDITERRANEAN SHORES 22 MINS.

This film records the story of life in modern Greece in all its aspects. Sequences show village life by the sea and among the mountains. Crops and resources are shown, with special emphasis on goods for export trade. The Corinth Canal, the port of Piraeus, and Athens with her ancient glories are pictured.

SS-332 GREECE, PEOPLE OF (Colour) 14 MINS.

In this film the people of Greece are shown at home and work in both rural and urban areas. Agriculture provides the major exports: olive oil, tobacco, fruit, and wool. The cities and seaports are hives of industry. Many of the old ruins are seen, as well as the newer structures which are patterned after the famous buildings of Greece's golden past.

SS-39 HOLLAND, CHILDREN OF 11 MINS.

The members of a Dutch farmer's family are presented in everyday activities typical of rural life in Holland. Opening scenes show a windmill, dykes, canals, harbours, fishing fleets, farmlands, and cattle grazing. Hendrik and Annie feed the chickens before breakfast. At school, they have a geography lesson, and join in sports and games. A trip to a Dutch town presents a comparison of rural and urban life.

SS-238 ITALIAN PENINSULA, THE 11 MINS.
The cool climate of northern Italy, the Mediterranean climate of the south, the twin coastlines, and the mountain ranges have helped to produce different types of agriculture and living patterns. The film shows a citrus fruit grower near Naples, high school students in Rome, a rice farmer in the Po Valley, and a silk factory worker in Milan.

SS-272 ITALY: PENINSULA OF CONTRASTS (Colour) 16 MINS.
Skilfully depicts the physical geography of Italy and illustrates ways in which it influences the lives of the people. Contrasts old-fashioned and up-to-date methods of farming and transportation; portrays ancient and modern aspects of Italian cities; reveals the fertile and barren regions; and highlights the importance of the tourist trade to the people of Italy.

SS-315 LAPLANDERS 11 MINS.
This is the story of the reindeer-tending Laplanders of northern Scandinavia. It follows a family from summer fishing grounds to highland reindeer pastures, and portrays the Laplander's dependence on the reindeer for food, clothing, shelter, and transportation.

SS-477 LIFE IN THE ALPS (Austria) 11 MINS.
Haying, gardening, lumbering, and particularly grazing are the activities that fill the lives of people on the high slopes of the Austrian Alps. The seasonal movement of cattle and sheep from lower pastures to higher grazing lands illustrates how farmers have worked out a successful pattern of agriculture in a difficult and challenging Alpine terrain.

SS-557 MEDITERRANEAN WORLD, THE (Colour) 22 MINS.
This film shows the significance of the Mediterranean region in the development of Western civilization. The distinctive features and achievements of early civilizations are illustrated and contemporary life in the Arab countries and Greece and Italy are shown. The importance of the region as a centre of world tension today is pointed out.

SS-210 NORWAY, CHILDREN OF 11 MINS.
This film takes us on a visit to youngsters living on a farm in the beautiful fiord country of western Norway. It portrays the life of

Norwegian young folk and women at the "saeters" high in the mountains where they live during the summer. At the home farm on the fiord we have glimpses of typical harvesting, fishing, and dairying.

SS-527 NORWAY, THIS IS (Colour) 18 MINS.
Produced in Norway, this film shows the people of that country as they live, work and play. The geography and climate are discussed in relation to the industries and sports of this northern land.

SS-628 PEOPLE OF NORWAY (Colour) 15 MINS.
An intimate story of the life of the Norwegian people, showing their daily occupations, recreation, homes, cities, farms, and industries. The film shows how the rugged Norwegian environment affects the living habits of the people, and how they adapt to geological and climatic conditions.

SS-497 RHINE, THE: BACKGROUND FOR SOCIAL STUDIES (Colour) 11 MINS.
This film presents an over-all view of the significant influence the Rhine river has throughout Europe. Tracing its historical importance, from its role as a frontier of the Roman Empire to its place as a highway of modern commerce today, we study its effect upon the lives and activities of the people who live near it and the nations which fought to control it.

SS-345 SCANDINAVIAN LANDS: Norway, Sweden, Denmark 11 MINS.
The geography, the people and their way of life in the three Scandinavian countries are introduced. The purpose of the film is to promote an understanding of how the peoples of each country have utilized the resources of mountain, plain, and sea in the development of agriculture, industry, trade, and recreation, resulting in one of the highest standards of living on the European continent.

SS-409 SOVIET UNION, THE: THE LAND AND THE PEOPLE 14 MINS.
Surveying the largest country in the world, the film shows its great diversity in land forms, climate, and human activities. Emphasis is upon the trend toward future development as seen in expanding heavy industry, increased production, and wider use of previously undeveloped land.

SS-346 SPAIN, PEOPLE OF (Colour) 14 MINS.
Historical influences of the peoples who have occupied Spain during the ages are related to present-day life in Spain. Geographical descriptions of the two regions of mountains and plateaus are portrayed. The industrial growth of the country is traced and shows the development of a modern industrial society.

SS-41 SWITZERLAND, CHILDREN OF 11 MINS.

A scenic picture of a few summer days with a typical Swiss family consisting of two children, their parents, and grandfather. Wood carving and clock making are presented through a trip to town, while a trip up the mountain introduces cheese making and family picnic. Scenes of the snow-covered Alps and of green fertile valleys are shown.

SS-609 SWITZERLAND: Life in a Mountain Village (Colour) 14 MINS.

A typical Alpine village in southwestern Switzerland was chosen to show the way of life and traditional activities of the Swiss people. In this beautiful mountain setting, we observe the people at work in their various occupations, and at play on festive occasions.

SS-245 VENICE (Colour) 11 MINS.

Outlines the history of Venice from the time of its founding. The scenes filmed concern architecture, trade, the canal system, food supply, industries, and the modern tourist trade.

SS-348 WESTERN GERMANY: THE LAND AND THE PEOPLE (Colour) 11 MINS.

The film deals with the industrial, agricultural, and commercial life of Western Germany in relationship to the dense population, natural resources, and relatively infertile soil of this area. The importance of coal, farming, trade, and synthetic products to the development of this country is shown against its economy.

Great Britain and Ireland

SS-208 BRITISH ISLES 11 MINS.

Provides an over-all survey of Britain, showing why it is one of the most important regions in the world. The physical characteristics of the land, the life and character of the people, industries, food supply, and the vital importance of overseas trade to Britain are all analyzed.

SS-616 EIRE (Colour) 11 MINS.

The salient facts outlined in this film are obtained by journeying from the Atlantic coast on the west to the Irish Sea on the east. The traveller sees recent hydro developments, the bogs, turf cutting, the cattle industry and life in the city of Dublin. Map sequences clarify the geography of Eire, and pin-point important regions.

SS-56 ENGLAND, CANALS OF 11 MINS.

An account of the origin, development, and present status of canal boat traffic in England. A voyage on one of the boats through Grand Union Canal reveals interesting sequences on the food, work, and social customs of the people.

SS-162 ENGLAND, ELIZABETHAN (Colour) 11 MINS.

This film gives a general picture of Elizabethan times. The following features are depicted: communication, roads and streets, the plan of the "common land" field system, farm products with stress on wool and its export, square-rigged ships and cargoes, architecture, furniture, and dress.

SS-121 ENGLAND, THIS WAS 22 MINS.

This film presents a historical record of the continuous agricultural tradition existing in Suffolk from the Stone Age to the present. It is divided into a number of sections chronologically arranged and linked by sub-titles giving the historical origin of each custom. Suffolk men explain in their local dialect how the various methods are used today.

SS-331 ENGLAND, TRADITIONAL 16 MINS.

The film shows places famous in history, literature and legend: the Shakespeare and Lorna Doone countries, depicting many of the fine old English traditions.

SS-260 ENGLISH CHILDREN 11 MINS.

This film portrays typical English family life in the city of York and stresses the daily activities of the children. It points out interesting aspects of English home life and presents authentic events in a modern school, on the playground, at a cricket match, and at a grocery store. It concludes with a happy family holiday trip by train to a nearby seaside resort.

SS-163 FISHING GROUNDS OF THE WORLD 11 MINS.

The film opens with a map of the four main fishing grounds of the world and deals particularly with the grounds of North West Europe, showing how conditions there combined to provide an ideal habitat for fish. The process of trawling, unloading at Hull, and marketing at Billingsgate are illustrated.

SS-398 HEART IS HIGHLAND, THE (Colour) 14 MINS.

Some aspects of life of the people of the Scottish Highlands are shown in this film. Present developments in industry, agriculture and transportation are linked with the country's dramatic past in landscapes of unsurpassed beauty.

SS-368 HEART OF ENGLAND (Colour) 16 MINS.

This film gives an excellent description of the English countryside and of the people of the land. It centres in Shakespeare's home city and surroundings, and moves out to give a portrait of the delightful English midlands.

SS-216 IRELAND, A VISIT TO (Colour) 11 MINS.
A tour of the countryside and of the city of Dublin provides scenes typical of Ireland, and shows the way of life of the Irish people, rural and urban.

SS-271 IRELAND, NORTHERN 11 MINS.
Industries in Northern Ireland are depicted. The film includes such typical farm scenes as harvesting of flax, cutting of peat, and dairying. It also shows the fishing and shipping industries at Belfast.

SS-237 IRISH CHILDREN 11 MINS.
Depicts the daily life of the O'Reilly family who live on a farm in County Clare in western Ireland. Adults and children are shown at work and play.

SS-217 IRON AND STEEL SUPPLY OF THE WORLD 11 MINS.
The subject is introduced by a map of the major coal-fields, iron deposits, and iron and steel centres of the world in general and the British Isles in particular. Actual scenes show limestone quarrying, iron and coal mining. The making of iron and steel is shown by a diagram of the layout of an iron and steel works which is animated stage by stage. This is supported by actual shots of coke ovens, furnaces, rolling and finishing mills.

SS-79 MOTHER OF PARLIAMENTS 11 MINS.
The House of a Thousand Traditions — Seat of the British Government. Views giving the historical significance of the great, historic building that houses the British legislators. In a pageant of pictures we see the House of Commons, the Parliamentary Library, the House of Lords, the Chair of the Prince of Wales, the King's Private Robing Room, the Crypt of St. Stephen's, and Westminster Hall.

SS-286 QUEEN IS CROWNED, A (Colour) 66 MINS.
This is an authentic record of the procession from Buckingham Palace to Westminster Abbey, the coronation service itself, the procession through the streets and back to the palace with the appearance of the Queen and the royal family on the balcony.

SS-321 ROYAL NEW ZEALAND JOURNEY (Colour) 66 MINS.
Excellent colour photography reveals the complete royal tour of the North and South Islands of New Zealand.

SS-196 ROYAL WEDDING 11 MINS.
Shows the grandeur and solemnity of the wedding of Princess Elizabeth and the Duke of Edinburgh.

SS-422 SCOTLAND, CHILDREN OF (Colour) 15 MINS.
This is the story of life and work in a Scottish fishing village. We see the work of the fishermen through the eyes of two boys and a girl;

we see the children in their home life, in school (where they see a film about American school children), on a visit to a large fish market, and to a shipbuilding town down the coast. Above the town are the ruins of an old castle, and in the imagination of the little girl, Scotland's romantic past comes alive, with bagpipes and a swirl of kilts.

SS-112 SCOTLAND, HIGHLANDS IN 11 MINS.
Shows how by road building every highland village is linked up with Edinburgh and Glasgow. New types of croft houses are seen and the advantages of the highlands for grouse shooting, salmon fishing, and deer stalking are illustrated.

SS-290 SCOTLAND, ROYAL (Colour) 11 MINS.
Fine colour photography reveals several historic scenes in Scottish history. Sequences include glimpses of Glen Finan, Balmoral, Stirling Castle, St. Andrews, Holyrood House, Linlithgow. Stress is placed upon the part played by Scotland in the lives of our present royal family.

SS-572 STATE OPENING OF PARLIAMENT (Colour) 22 MINS.
A brief history of the development of the British Parliament to its present form is presented as background for the pageantry and tradition which is an integral part of the Opening of Parliament.

Sequences include shots of the Palace of Westminster, the House of Lords, the Assembling of Members of the Government, and finally the entrance of the Queen, who reads The Speech from the Throne.

SS-410 TROOPING THE COLOUR (Colour) 11 MINS.
This film captures the grandeur, colourful pageantry, and remarkable precision of the Grenadier Guards in the brilliant military spectacle of this famous ceremony.

Canada

SS-525 ARCTIC OUTPOST (Colour) 30 MINS.
In this film we are introduced to life in Pangnirtung, a tiny white settlement on a wind-swept fiord of the Eastern Arctic. From the R.C.M.P. post, the mission hospital, the government school and the Hudson's Bay Company trading post come many modern services and supplies for the widely scattered Eskimo population.

SS-253 BEAVER, AGE OF 14 MINS.
A brief history is given of the fur trade in Canada, with its effects on exploration and settlement. Animated maps indicate the routes of early explorers and traders to Hudson Bay and the Pacific Coast. Closing sequences show the fur trade of today as still being one of Canada's important sources of wealth and industry.

SS-26 CANADA, INDUSTRIAL PROVINCES OF 11 MINS.
Orients Ontario and Quebec as the heart of the Dominion of Canada. The industries, as agriculture, manufacturing, mining, transportation, and tourist trade are illustrated with the localities where each predominates. The relationship of the Central provinces to the remainder of Canada, to the United States and other regions of the world is shown.

SS-304 CANADA, PHYSICAL REGIONS OF 16 MINS.
This is a study of the physical and economic geography of Canada on the basis of six natural divisions: the Pacific Coast region, the Great Plains, the Laurentian Shield, the St. Lawrence Lowland, the Atlantic region, and the Arctic Islands. In each region the film interprets the relationship of topography, climate, and natural resources to the industries or occupations of its inhabitants.

SS-305 CANADA'S PATHWAY TO PLENTY (Colour) 14 MINS.
This is the story of how our business system came into being, and how it operates in Canada today. It traces man's economic progress through the ages, and points out how free men, through their ingenuity and hard work, have made Canada prosperous and great.

SS-450 CANADA'S ROYAL CANADIAN MOUNTED POLICE (Colour) 16 MINS.
This unusually rich and exciting motion picture takes the audience thousands of miles across Canada — from a training centre in Ottawa to Baffin Island in the Arctic — to the barren coasts of Newfoundland — to an alley in Montreal — seeking always to discover what it is that makes the R.C.M.P. the superb police force that it is — a model to all the world of what a law enforcement body can be.

SS-256 CANADIAN HERITAGE (Colour) 30 MINS.
An able interpretation of our Canadian way of life is given in this picture. It depicts the love of the people for home and country, and their common reactions to the changing seasons. It records Canadian accomplishments and ambitions, and the influence upon Canadian character of the mingling of many races.

SS-587 CATTLE RANCH (Colour) 20 MINS.
The life of a cowboy on a British Columbia cattle ranch is dramatized. It shows activities on the range — branding, feeding, etc. — and finally, the trek to the city abattoir. A colourful production glamorizing life on a ranch.

SS-537 CITY OF GOLD 22 MINS.
A nostalgic recollection of the period when the Yukon gold fever was at its height. The commentary, written and spoken by Dawson-born Pierre Berton, begins with boyhood recollections of the writer.

This feeling of retrospect is further deepened by the introduction of many vintage photographs which give the film a documentary quality as it reviews the history of the gold rush. We see relics of the old Dawson as it was when all the gold of the rich river beds flowed through its stores, taverns and dance halls.

SS-538 CLIMATES OF NORTH AMERICA (Colour) 20 MINS.
Excellent map sequences are used to depict the variations in climate in the different regions of North America. The patterns of climate with their causes and influence on industry and life of the people are shown. Regions illustrated are: Greenland ice-cap; Arctic tundra; sub-Arctic; continental; sub-tropic; Pacific and desert.

SS-591 DECISION TO DRILL (Colour) 27 MINS.
This is a documentary drama of men and machines at work in the endless search for oil and natural gas. We see the various stages of the search: the geologists, the surveyors, the land crews and the company management personnel as they weigh the probabilities of making a "discovery". When a decision to drill is reached, the derrick is moved into operation. Finally the crucial moment — is it a strike or a dry hole?

SS-459 DOWN NORTH (Colour) 30 MINS.
A progress report, in colour, of recent sub-Arctic developments in the half-million square-mile District of Mackenzie in the Canadian north. In thriving communities such as Hay River, Yellowknife, Port Radium, the film shows how modern technology, new year-round roads and new methods of winter transport are opening up new possibilities in mining, lumbering and other industries. The influence of northern development on the Eskimo and Indian populations is shown.

SS-38 ESKIMO CHILDREN 11 MINS.
The activities of an Eskimo family on Nunwak Island are portrayed. The interior of their winter home is shown, with the children sleeping on a wooden platform. Food, clothing, transportation, daily activities, games, and social customs are depicted.

SS-58 ESKIMO SUMMER (Colour) 22 MINS.
Describes normal summer activities of an Eskimo colony during the short Arctic summer when they prepare food and fuel for the winter ahead. The men are shown trapping and spearing fish, hunting whales, seals, bears, and walrus. The women are shown preparing food and clothing.

SS-541 FACE OF THE HIGH ARCTIC (Colour) 13 MINS.
A study centred around the Queen Elizabeth Islands of the Canadian Arctic, of a geological evolution that has gone on for millions of

years. Treeless wastes bear evidence of glaciers that advanced and receded, and of life forms that changed with the climate. The film exposes the cataclysmic forces that passed over this Arctic land, then retreated leaving it in cold repose.

SS-364 FAMILY TREE (Colour) 11 MINS.
This film depicts the history of the settlement of Canada from the early colonization by the French and English up to the present time. Emphasis is placed on the contributions made by the various peoples who are part of the Canadian nation.

SS-544 GEORGES P. VANIER 30 MINS.
A film profile of Canada's Governor-General, viewed against a background of events in which he played a prominent part. His military service in two world wars, his diplomatic service between the wars, and his investiture as Canada's 19th Governor-General, are all shown in historical context. In the film you also meet Madame Vanier as she takes over her duties as Canada's first lady.

SS-474 HIGH ARCTIC: LIFE ON THE LAND (Colour) 22 MINS.
An ecological study in full colour of plant and animal life on the Queen Elizabeth Islands in the Canadian Arctic, and of the life cycles which are the law of nature even in these frozen wastelands. Animals such as the musk-ox, lemming and Arctic hare, and various forms of plant life are seen as part of an evolution that began in pre-history and continues, almost imperceptibly, today.

SS-599 HISTORY OF THE CANADIAN FLAG AND COAT OF ARMS (Colour) 11 MINS.
The development of the flag as a national symbol is traced from early times. The significance of the component crosses and insignia is explained, and traditional uses of the flag are demonstrated. The second part of the film similarly illustrates the significance of the Coats of Arms of Canada's ten provinces, the Yukon Territories, and the insignia of Canada.

SS-370 INDIANS OF THE PLAINS: LIFE IN THE PAST (Colour) 11 MINS.
The film shows how the Plains Indian lived before the white man arrived, depending on the buffalo for food, clothing and shelter. Examples are shown of quill and beadwork decoration of clothing and moccasins, preparation of pemmican, painting of household articles, and a typical encampment beside a river.

SS-524 INDUSTRIAL CANADA 18 MINS.
A documentary account of Canada's industrial development and what it means economically and socially to the Canadian people.

The film traces the country's transformation from a strictly agricultural economy to an increasingly industrial one, commenting on the impetus given by World War II. The Canada of today which we see in this film portrait presents a diversity of industrial activity, with rich natural resources of every description forming the basis of export and manufacture.

SS-337 IRON FROM THE NORTH 22 MINS.
This is the story of the development of one of Canada's richest mineral areas, the Ungava district of Quebec — Labrador. It tells how a railway was built from the seaport of Seven Islands to the rich Knob Lake iron ore deposits hundreds of miles inland, enabling coastal freighters to carry the ore to Great Lakes steel mills.

SS-432 MONEY MINTERS (Colour) 11 MINS.
A colourful description of the development of money throughout the ages, of how nickel is mined and smelted, and of how coins are minted today in the Royal Canadian Mint at Ottawa.

SS-341 MUSICAL RIDE, THE: R.C.M.P. (Colour) 22 MINS.
The film presents the famous Musical Ride of the R.C.M.P. After a few words of introduction the different formations are shown: Threading the Needle, the Diamond, the Letter X and others. The setting is a typical autumn scene with its vivid colours.

SS-377 NO LONGER VANISHING (Colour) 30 MINS.
This is the story of the Indians of Canada — how they lost their sense of independence through living on reservations under government control and how they are gradually regaining their position as responsible citizens. By better education and adaptation of modern industrial techniques, the Indians of today are again enjoying a more vital part in our Canadian way of life.

SS-602 ORIGINS OF WEATHER (Colour) 13 MINS.
Using animation, this film illustrates many factors which determine the weather and climate of our earth. The effects of the sun, wind, atmosphere and earth motion are viewed from a space vantage point, as they interact to produce the changes in weather conditions.

SS-627 OTTAWA, CANADA'S CAPITAL (Colour) 14 MINS.
Photographed in tulip time, this film explores the many beauty spots in and around the city and shows how Ottawa has capitalized on its many natural endowments to develop a unique capital city. The once-lonely hill overlooking the juncture of three rivers has been transformed into a picturesque site on which stand the gracefully silhouetted Houses of Parliament, serving also as a shrine for much of the country's history.

SS-561 PEOPLE OF THE ROCK (Colour) 14 MINS.
Here is a view of the New North as the industrial clangour of the 20th century breaks upon the ancient stillness of the Arctic. Eskimos leave their families to go to work in the North Rankin Nickel Mine, learning with remarkable dexterity to operate the bulldozer, the mucking machine, the ore locomotive and the ore drill. Through their experience at Rankin Inlet emerges Canada's plan for Eskimo integration — a future of challenge and promise.

SS-98 PORTAGE (Colour) 22 MINS.
The story of how Indians have passed on the craft of making birch-bark canoes from generation to generation. Primitive materials supplied from the abundant wealth of the northern forests are used. The Indian is shown in winter surroundings, setting his traps and following his trap lines.

SS-493 PORTRAIT OF CANADA (Colour) 10 MINS.
A first edition, and cause for national pride, the new all-Canadian Atlas provides a wealth of information about Canada. This colour film provides a well-illustrated summary of how the Atlas was compiled and of the store of facts between its covers. An inkling of the great amount of work that went into its preparation is given as the film takes you on survey expeditions to remote parts of Canada, and to map-making headquarters in Ottawa where a mass of detail was sorted, classified and translated into the special symbol language of the map-maker.

SS-435 PRECAMBRIAN SHIELD, THE 30 MINS.
One of a series of classroom films studying the geography of Canada on the basis of its natural divisions, this film explores what is often called Canada's treasure trove — the vast territory reaching like an enormous semi-circle around Hudson Bay. The film stops at representative points on the outer perimeter of this semi-circle from Naid on the Labrador coast to Yellowknife in the Northwest Territories and presents typical scenes of the natural resources, industries and occupations of each area.

SS-603 QUEEN OPENS PARLIAMENT (Colour) 11 MINS.
A historic occasion, the first time the reigning monarch opened a session of the Canadian Parliament is shown in full detail. The significance of each part of the ceremony is explained as Her Majesty Queen Elizabeth II convenes the 23rd session of Parliament.

SS-383 ROAD OF IRON 30 MINS.
This documentary film shows the achievements of men who forged into the untamed wilderness of northern Quebec to lay the line of steel which brought to market the rich iron ore of the Ungava region. We see the air-lift and the tractor caravan at work transporting

machines and equipment through forest, over muskeg and across rivers until the first ore train finally succeeds in reaching the St. Lawrence seaport of Seven Islands.

SS-568 ROUGHNECKS (OIL DRILLERS) 22 MINS.
The life and work of an oil-drilling crew is shown from the moment they arrive with their rig to the time when the well has been successfully capped. Mud and muskeg, rain and wind — nothing halts the probing drill once the derrick is raised and the race for oil begins.

SS-292 SETTLER, THE 22 MINS.
During the depression of the '30's, people moved north to the Abitibi region. Their activities were similar to those of the pioneers of Upper and Lower Canada. This film could be used as a study of pioneer life, as well as a review of progress in the northern part of our country.

SS-436 THE SCEPTRE AND THE MACE 30 MINS.
The film presents an interpretation of the role of the Crown in Canada's parliamentary system of government. Quoting from historical and constitutional documents, the film shows Queen Elizabeth II opening Canada's Parliament and attending to other official functions in her role as Queen of Canada and head of the Commonwealth of Nations. The splendour and pageantry of Her Majesty's residence in Canada is combined with a lesson in history and the constitution.

SS-634 TRANS-CANADA JOURNEY (Colour) 29 MINS.
This film takes you on a tour of Canada. Swiftly, effortlessly, a jet liner spans the miles, sheering through fleecy clouds to open sky and scenic vistas of the provinces below. You see the country sometimes from on high, sometimes at ground level, gathering impressions of a vast and beautiful land, intimate glimpses of town and country, of people of many ethnic origins, of a resourceful and industrious nation. Impressions it would take days and weeks to gather at first hand are brought to you in half an hour in this vivid, three-thousand-mile panorama.

SS-507 TREASURES OF THE FOREST 18 MINS.
A film on the industries which draw their wealth from the raw material supplied by Canada's forests, showing how this wealth is being preserved by a long-term conservation programme. Dramatic sequences filmed in the rain forests of the British Columbia coast show the world's greatest lumbering operations; how giant conifers are felled, transported by water routes to sawmills, and cut into lumber or reduced to Canada's greatest single export — newsprint. Realization of the need for conservation has led to an extensive programme of aerial stock-taking and a system of planned cutting and reforestation.

SS-300 WINTER IN CANADA 22 MINS.

Peter, a newcomer to Canada, tells the story of his experiences in a Canadian winter season in a Laurentian town. His cousin Julien, who lives in the range country of the Rocky Mountain foothills, writes to him of the activities enjoyed by children in that part of Canada.

Western Provinces

SS-152 ARCTIC BORDERLANDS IN WINTER (Colour) 11 MINS.

This is a film trip to Churchill, Manitoba. As autumn comes to an end, the film shows every living thing busily preparing for the approaching winter. Caribou migrate south ahead of the howl of the arctic wind, the grouse develops a protective white coat, and the trapper with his dog team braves the snowy trail. After going through this vivid experience in arctic living, students realize that in these barren lands all living things, including man, must adapt to their environment or perish.

SS-28 CANADA, PACIFIC 11 MINS.

Routes of discovery and exploration are traced. Portrays the settling of the province, with emphasis upon the part played by climate and by transcontinental and ocean transportation. Other sequences on fishing, lumbering, agriculture, mining, smelting, and ship building follow.

SS-615 THE COLUMBIA (Colour) 10 MINS.

Discovered in 1792, the Columbia river has often been in dispute between Canada and the United States. This film shows how both countries benefit through its recent development to provide hydro power and tourist facilities.

SS-466 FRASER'S RIVER (Colour) 15 MINS.

This colour film, photographed in the scenic splendour of the Canadian Rockies, describes the effect the Fraser River has had on the social and economic development of British Columbia. It traces the river from its source in the Rocky Mountains to its mouth where the city of Vancouver stands. The influence of the Fraser as a provincial lifeline of commerce and communication, and as a transportation link with the rest of Canada, is shown.

SS-396 GREAT PLAINS, THE (Colour) 24 MINS.

Those who settled the Canadian Prairies met the challenge of their environment and spread throughout the Great Plains to engage in mixed farming and grain growing in Manitoba; to plant thousands of square miles of wheat in Southern Saskatchewan; to ride the rolling hills of Alberta behind herds of beef cattle, and more recently, to probe deeply into these same hills to unlock the underground vaults of oil.

SS-267 HERRING HUNT 11 MINS.

This is a dramatic story of herring fishing off the Pacific coast of Canada. It has citizenship value in teaching proper attitudes to adversity, and how mistakes should be handled.

SS-180 MEAT ON THE MOVE (Colour) 30 MINS.

This film shows how livestock are transported from ranch or farm and marketed in large city stockyards. Processing in the modern meat plant is pictured at length. The film demonstrates how the product finally arrives on the retail counter through an efficient system of sales and delivery. Stress is laid on the creation of employment for large numbers of people.

SS-485 MOST LOVELY COUNTRY (Colour) 31 MINS.

A centennial tribute to British Columbia, the film has as its theme the fulfilment of a prophecy made by Captain George Vancouver when he first saw the country in 1792. The camera traces the history and development of the province from that date.

SS-317 MOUNTAINS OF THE WEST 22 MINS.

The influence of geographical environment upon industries and occupations is the theme of this film. Animation is used to depict the geological evolution of mountain ranges and valleys before and during the Ice Age. Present-day scenes show how man has learned to unlock the resources of this region and use them for his own good.

SS-495 RAILROADERS 22 MINS.

A film about winter railroading in the Canadian Rockies and the men who keep the lines clear. The locale: the stretch between Revelstoke and Field, B.C. — in summer one of the most majestic of mountain panoramas, in winter a snow-choked threat to communications. The film shows the co-ordinated work of the section hands and maintenance men, the train crews and telegraph operators who keep traffic moving over a most difficult part of Canada's railway network.

SS-566 ROCKY MOUNTAINS: A GEOGRAPHIC REGION (Colour) 11 MINS.

Photographed in Alaska, Canada, and the Rocky Mountain states, this film presents a geographic overview of the Rocky Mountains, one of the most spectacular features of the North American continent. A region of rich natural resources, including minerals, forests, rushing rivers, as well as grazing and agricultural lands, these mountains have played a significant role in the development of the continent.

SS-197 SKEENA, PEOPLES OF THE (Colour) 22 MINS.

Deals with the Getikshan and Tsimshian Indians of northern British Columbia and how they live in today's world. Against the mountains and forests tower the ancient totem poles; the old graveyards reveal past history; on the reserves the traditional crafts are still practised. But the Indian now lives between two worlds, and in the school games, the wedding complete with white veil and rice, and the modern sawmill, we see how the white man's ways are being adopted. As a climax the film shows the action-full rodeo at Kispiox.

SS-571 STAMPEDE STOPOVER (Colour) 18 MINS.

"Stampede Stopover" captures the flavour and spirit of Stampede Week, seen through the eyes of a girl from eastern Canada, whose train stops over in Calgary at the height of the festivities. The camera accompanies her as she starts a light-hearted tour of the city and is caught up in the excitement and colour of the greatest western show on earth.

SS-513 WHEAT COUNTRY 20 MINS.

On the wheat farms of the Canadian West the horse has all but disappeared and labour-saving machines now plow and sow and reap and mow. But, technological advances notwithstanding, there is still one over-riding factor — the weather. Here is a film which shows how, each spring, prairie farmers renew their gamble with wind, frost, drought, rust and hail to begin again the cycle that may bring a good year, or a lean. This story of big-scale western wheat farming is told by a farm woman whose sons represent the fourth generation to operate a Saskatchewan farm.

Ontario

SS-530 ABITIBI (Colour) 28 MINS.

Using 50-year-old black and white flashbacks, interspersed with modern colour shots, the technological advances in the logging and pulp and paper industry are dramatically illustrated. The visual presentation is so self explanatory, that only five minutes of commentary is required.

SS-6 ALGONQUIN WATERS 11 MINS.

This film contains interesting views of the magnificent forests and waterways of Algonquin Park in Ontario. A general view of the park is given first, followed by scenes of tourists canoeing, fishing, swimming, and riding horseback through the Park.

SS-442 BATTLE OF STONEY CREEK (Colour) 11 MINS.

When the Americans invaded the Niagara Peninsula in 1813 after capturing Fort George, the struggle for control of this frontier reached its climax at Stoney Creek. The roles of Colonel Harvey and Billy Green receive suitable emphasis. The results of the Canadian victory and their influence on the future course of the war are shown.

SS-451 CENTURY OF HARVEST (LINCOLN COUNTY) (Colour) 16 MINS.
An excellent review of the early role of Lincoln County in Ontario's history is shown in this film. Sequences emphasize the part played by fruit growing, with special stress on cherries, peaches, plums, pears, apples and grapes. Other facets of a balanced economy outline the part played by this county in Ontario's development.

SS-209 CHAMPLAINS OF TODAY (Colour) 28 MINS.
A canoe trip follows the route of Champlain up the Ottawa River Valley, across scenic Lake Nipissing to the fast waters of the French River, to Georgian Bay, Penetang, and Midland. Included are scenes of camping, fishing, resort life, air views of the Thirty Thousand Islands, concluding with the Martyr's Shrine Pageant.

SS-211 ERIE'S SHORE (Colour) 22 MINS.
The film provides a tour of the sunny north shore of Lake Erie. Shown are scenes of recreational areas, beaches, the countryside, and of the annual pheasant shoot on Pelee Island.

SS-166 FRIENDLY INVADERS (Colour) 22 MINS.
A travelogue through the Thousand Islands, along the St. Lawrence River and up the Rideau Waterway to Ottawa, Canada's capital. The film pictures fishing, sailing, canoeing, and scenes at the historic site of Fort Henry, Kingston.

SS-61 FUR COUNTRY (Colour) 22 MINS.
This film was made around the James Bay area. It describes a week in the life of a trapper, and shows him setting his traps, collecting the pelts, and delivering them to the Hudson's Bay Company Post at Moose Factory.

SS-64 GREAT LAKES (Colour) 22 MINS.
This film pictures a boat trip from Lake Superior to the St. Lawrence River. The shipping theme links together short sequences on steel production, pulp manufacture, shipbuilding, grain storage, and the operation of the great locks and canal systems. Glimpses of the scenery and great industries along the shipping route are included.

SS-428 GREAT LAKES, THE—HOW THEY WERE FORMED (Colour) 11 MINS.
Thousands of years ago the Great Lakes were formed as a result of the work of glaciers. The film describes the present-day drainage of the Lakes and the physical characteristics of Niagara Falls, and illustrates topographical changes now occurring.

SS-614 HAMILTON, THE AMBITIOUS CITY (Colour) 8 MINS.
A thumb-nail sketch of the history of Hamilton is presented. The film shows the city's development and growth from a pioneer settlement into one of Canada's most modern industrial centres.

SS-235 HIGHLAND LEGEND (Colour) 22 MINS.
Summer and autumn scenes in the Haliburton Highlands are shown in vivid colour. Tourist attractions and summer sports are stressed.

SS-213 HISTORIC HIGHWAY (UPPER CANADA) (Colour) 30 MINS.
From Lachine to Amherstburg, this film provides a tour of historic sites on the Canadian side of the St. Lawrence Waterway. Interesting views of the forts, monuments, and sites as they appear today are shown, and the history of each is given, much of it centred around the War of 1812. Included is an artist's conception of the battle of Queenston Heights.

SS-582 HISTORY OF MAIL DELIVERY IN UPPER CANADA (Colour) 11 MINS.
The development of our mail delivery system in early pioneer days is shown. The various stages from courier, canoe routes, mounted carrier, stage coach, dog team, and railways with the growth of rural routes, post offices, and postage stamps are outlined.

SS-218 LAND OF BLUE WATER (Colour) 22 MINS.
This film follows the Blue Water Highway route from Windsor north along the shore of Lake Huron to Bruce Peninsula and thence around Georgian Bay to Orillia on Lake Couchiching. Scenes of swimming, beach scenes, towns and villages, motorboat racing, and resort life throughout the area are shown.

SS-480 LOCATION: NIAGARA (Colour) 25 MINS.
This film, produced for the Greater Niagara Chamber of Commerce, stresses the important place Niagara holds in this province. The early history of the area is outlined. An engineer is impressed with the water power facilities, Welland Canal, and sporting events. The important historical events receive careful treatment, while the holiday possibilities are viewed through the eyes of a family on vacation.

SS-240 LONGHOUSE PEOPLE (Colour) 22 MINS.
The Iroquois Indian of today is a modern man, working his farm near Brantford with modern machinery and living in a modern house, just as do his white neighbours. Most of the Iroquois are Christians, but some retain their old religion and its customs. Members of the latter group form the Longhouse People. The film shows scenes of their daily life and pictures them taking part in the solemn ritual of their ancient faith.

SS-178 MANITOULIN HOLIDAY (Colour) 11 MINS.
Tourists are shown enjoying their vacation on Manitoulin Island. Fishing, swimming, and horseback riding are portrayed. The possibilities of trout fishing are stressed. The natural beauty of this favourite tourist paradise is skilfully revealed in this film.

SS-183 NIAGARA, LAND OF (Colour) 22 MINS.
This film takes the audience on a tour of the Niagara region. Excellent scenic views and famous historic sites are well portrayed. Other sequences show the fruit orchards in bloom, Welland Canal, parks, forts, monuments, and scenery at the Falls.

SS-186 NORTHERN AUTUMN (Colour) 11 MINS.
This film shows autumn scenery in our Ontario Northland. Two men in a canoe paddle the lakes and rivers, portage, shoot rapids, camp and cook outdoors. The forest ranger is shown giving the travellers their tourist permit and inspecting their game licences. Other sequences reveal a deer, wild ducks, and the construction of a beaver dam.

SS-563 PIONEER VILLAGE (Colour) 32 MINS.
Many aspects of life as it existed in an Ontario village of pre-Confederation days are dramatically illustrated by a visit to the reconstructed village site at Black Creek. The life of the pioneer family as seen in this film is characterized by its dependence on the land, by its deep-rooted religious convictions and by its social activities.

SS-629 QUEEN CITY, TORONTO (Colour) 8 MINS.
The history of the city of Toronto is traced, from a frontier port in 1620 to the great metropolis of today. The capital city of Ontario is well known for its fine buildings, its educational facilities, and its industrial development.

SS-500 THE ST. LAWRENCE SEAWAY (Colour) 30 MINS.
A clear and vivid picture of the development of this great inland waterway and how it will serve the industrial heartland of North America. Film animation alternating with live photography shows what had to be done to construct the new water stairway which provides clear passage for ocean-going ships right to the head of the Great Lakes. From the first silver-spaded sod-turning to the moving of mountains by bulldozers, this film provides a living record of one of the greatest engineering achievements of our modern world.

SS-580 VILLAGE IN THE DUST (Colour) 20 MINS.
Village in the Dust is the story of the discovery of the remains of a thousand-year-old Indian village. One of Canada's most important

archaeological finds, it has provided historians with a link between the Woodland tribes who roamed Canada for thousands of years and the famous Iroquois whom the first Canadian explorers encountered.

Quebec

SS-230 CANADA, FRENCH (1534-1848) 22 MINS.
Actuality shots represent the life of the Quebec habitant one hundred years ago. How his life developed is shown by animation of pictures taken from the works of C. W. Jefferys and from the Dominion Archives.

SS-424 COLONIAL FAMILY OF NEW FRANCE (Colour) 14 MINS.
In authentic settings, colonial family life in New France is depicted in about 1700. On the St. Lawrence River in French Canada, we see the industrious Tremblet family on a tenant farm. We learn of everyday hardships and pleasures while experiencing a freedom unknown in the Old World. A visiting priest and a voyageur bring in other facets of life in New France.

SS-35 FRENCH CANADIAN CHILDREN 11 MINS.
A study of the winter home life and environment of a typical French Canadian farm family is portrayed in this film. School life, ice cutting, rug making, and maple sugar and syrup producing are shown.

SS-212 HISTORIC HIGHWAY (LOWER CANADA) (Colour) 16 MINS.
From Gaspé to Lachine, a tour of the historic sites along the St. Lawrence River, former highway of explorer and trader, provides a review of dramatic events in the story of French Canada. Monuments and old buildings are shown and the historical background of each is given. Special attention is paid to Quebec with its ancient citadel and to Montreal. The film includes an artist's conception of the battle of the Plains of Abraham.

SS-175 INDIAN CANOEMEN (Colour) 11 MINS.
The rivers of Northern Quebec are still the communication system of nomadic Indians. The film follows a canoe from the Manowan trading post across the headwaters of St. Maurice River, showing the white water of rapids, the Indian skill of eye and paddle, and in quiet waters the hooking of a three-foot Great Northern Pike. Preparing camp is shown — a bed of balsam tips, poles for the tent, and wood coals for the evening meal. The next day a portage and further paddling bring the men to camp, and the welcome of their families.

Atlantic Provinces

SS-441 ATLANTIC REGION, THE 22 MINS.

This film presents a study of the east coast region of Canada and the life and industry of its people. It shows the direct influence of geographical factors on the development of the area, for example, how the readily available sea harvests gave rise to the great Maritime fishing industry, and how the development of farm lands, mineral deposits and forest resources established other industries. We see how the many scattered settlements were gradually linked together as able and healthy communities.

SS-418 CANADA, ATLANTIC PROVINCES (Colour) 18 MINS.

An overview is presented of the provinces of Nova Scotia, Prince Edward Island, New Brunswick and Newfoundland. The film emphasizes the growing industrialization of the region, including the development of iron ore deposits, steel production and mining of gypsum, as well as the older established industries of fishing, logging, agriculture.

SS-465 FISHERMEN 22 MINS.

Which should he choose — to stay boss of his own boat and hope for better catches, or to seek a job in commercial fishing, trading independence for more certain income? This is a discerning documentary on the choice that faces many of Canada's east-coast fishermen as modern technology beckons them away from the traditional ways of inshore fishing. Set against a background of cliffside villages and storm-scoured coves, the film is a thoughtful study of significant changes taking place in a vital maritime industry.

SS-397 HARVEST IN THE VALLEY (Potatoes) (Colour) 14 MINS.

Large-scale potato farming in one of Canada's largest export areas — the Saint John Valley of New Brunswick. The film shows the harvesting of a bumper crop: the specially designed, motor-driven machines that lay bare row upon row of tubers; the crews of potato pickers who follow closely behind, filling thousands of barrels in a season; and the mammoth warehouses where potatoes are sorted and graded for export.

SS-483 MARITIMES—TRADITIONS AND TRANSITIONS 30 MINS.

Dr. Trueman talks with intimate knowledge of the past and present of Canada's oldest frontier. He places in historical perspective the change and adjustment that has become the order of the day for this Atlantic region. Also with views and comments, the film presents leading educators and economists who forecast more changes for the future.

SS-559 MY ISLAND HOME (Colour) 15 MINS.
Prince Edward Island is sometimes known as the Garden of the Gulf. Life on the Island is viewed through the eyes of a native son, who presents the various occupations of the people, as well as showing the facilities for recreation and cultural pursuits.

SS-342 NEWFOUNDLAND, HIGH TIDE IN (Colour) 22 MINS.
This film gives an account of the efforts of the people of Newfoundland to modernize and extend their industries. While mining and lumbering are mentioned, the emphasis is on what is being done to revitalize the fishing industry and to improve marketing.

SS-181 NEWFOUNDLAND, SENTINEL OF THE ATLANTIC (Colour) 22 MINS.
This film gives a picture of the daily life of Newfoundland's people — their homes, community events, and ways of making a living. Newfoundland's resources in timber supplies and iron deposits are surveyed and the possibilities for their future development estimated.

SS-626 NOVA SCOTIA SAGA (Colour) 18 MINS.
Produced by the government of Nova Scotia, this film is designed to present a comprehensive study of the province. Various aspects dealt with are: its historical background, its agricultural and industrial developments, its tourist industry, and the contributions of various nationalities to its culture.

SS-322 SAINT JOHN VALLEY 16 MINS.
This is a film study of the beautiful New Brunswick valley from the port of Saint John to Edmundston. Traces of the early history are included, yet modern farming methods, pulp and paper industry, and fishing sequences emphasize life today in this area of fertile fields and flowing waters.

SS-573 STOWAWAY, THE (Colour) 15 MINS.
A story of a boy, a Bluenose schooner, and adventure at sea. This is an adventure-filled quarter-hour about a thirteen-year-old boy who stows away on his father's schooner and learns about deep-sea fishing when the vessel reaches the famous Grand Banks fishing grounds off the coast of Newfoundland.

United States and Possessions

SS-526 ALASKA: THE 49TH STATE— Its People and Resources (Colour) 16 MINS.
This film fills in the outline with an exciting visualization of geography, resources, people and their jobs. We see that Alaska is a last American frontier and, like all frontiers, a land for pioneers and hard work. The film indicates that many obstacles must be overcome

before Alaska can reach its full potential of wealth — inadequate transportation, lack of industries located within the state, too many imports and not enough exports.

SS-387 AMERICA'S INLAND WATERWAYS 14 MINS.

Scenes of activity on some of the most important lakes, rivers, and canals that form a network of transportation routes are combined with map animation to stress the importance of the inland waterways to the country's economy. The historical background of some of the major waterways and the kind of cargo carried on them are also presented.

SS-353 BILL OF RIGHTS (Colour) 22 MINS.

The first ten amendments to the Constitution are the specific guarantee which history, contemporary events, and the temper of men's minds had marked as vital safeguards of personal freedom.

SS-588 CHILDREN OF THE COLONIAL FRONTIER (Colour) 20 MINS.

Far from the thriving colonial cities, Jerome O'Connor and his family struggle to survive in the Appalachian wilderness of the 1760's. This film depicts pioneer life on the very edge of America's colonial frontier. We see the spring planting and the fall harvest, the unending labour of making soap, carding wool and hunting; and the many other day-by-day chores that must be performed to insure survival.

SS-36 COLONIAL CHILDREN 11 MINS.

A typical day in the life of a New England family in Massachusetts about 1680 is presented in this film. It provides a clear picture of the home life, clothing, work, food, and customs of the New England colonists.

SS-359 COLONIAL LIFE IN THE MIDDLE COLONIES 11 MINS.

The general character of life in the pre-Revolution middle colonies is portrayed through re-enacting the trip of a post rider as he carries mail from Philadelphia to New York. The people, geographic influences, and contributions of the middle colonies to American tradition here presented will foster a clear conception of colonial life in the middle colonies.

SS-360 COLONIAL LIFE IN THE SOUTH (Colour) 14 MINS.

In following the journey of a surveyor who visits a frontier tobacco farmer and a tidewater plantation owner, the characteristic social and economic life of the southern colonies in the pre-revolutionary period are shown. Many utensils, household articles and fashions of the period are shown to create the feeling and mood of life in the southern colonies.

SS-362 CONSTITUTION OF THE UNITED STATES (Colour) 22 MINS.

A written constitution, binding upon all citizens, is the foundation of the American democratic system. Its makers were men well fitted for great works, but this far-reaching document was their supreme accomplishment.

SS-363 DECLARATION OF INDEPENDENCE (Colour) 22 MINS.

This film presents the historic statement of democratic principles as it affected many people in many places; and the risks taken in the cause of liberty.

SS-262 FAR WESTERN STATES 11 MINS.

Characterizes the Far Western States as a contrast in climate, topography, and people. Their strategic position as a gateway to the Pacific and the Far East is emphasized. Natural resources and growth of industries are shown, with explanations of economic problems of irrigation and extreme climatic conditions.

SS-543 FRONTIER BOY OF THE EARLY MIDWEST (Colour) 16 MINS.

The film describes the everyday events of the life of a Midwest settler's family from a child's viewpoint, illustrating school and community activities as well as home life, stressing the self-sufficiency of the early settler. Highlights of the film include a frontier school in session, showing some of the equipment and instruction techniques; an accurate picture of a frontier home and its furnishings as well as components of the surrounding community, such as a grist mill and general store; the suspense of an old-fashioned spelling bee.

SS-366 GEOGRAPHY OF NORTH CENTRAL STATES 14 MINS.

The geography of the North Central region is related to its importance as a source of foodstuffs, raw materials, and manufactured goods and as a key region for the transport of materials by rail and water.

SS-469 GEOGRAPHY OF THE UNITED STATES: An Introduction (Colour) 14 MINS.

This comprehensive overview of the geographical and human use resources of the U.S. stresses the theme of unity from variety. From the great variety of landforms, resources, climatic regions, crop belts, types of occupations and peoples has come a vigorous and productive country.

SS-333 HAWAII: U.S.A. 22 MINS.

This is a colourful study of the history and heritage, beauty and commercial life of the Territory of Hawaii and her half-million cosmopolitan citizens. The volcanic origin, a million years ago, is graphically depicted as is the development to the present of Hawaii's major industries: sugar, pineapple, cattle, and coffee.

SS-400 INDIAN FAMILY OF LONG AGO (Colour) 16 MINS.
Historically accurate, this film recreates the life 200 years ago of the Plains Indian. It presents members of a Sioux family on the march with horses and travois, putting up their tepee, their camp activity and games; climaxed by a buffalo hunt. The whole story centres around their dependence on the buffalo as a way of life.

SS-402 INVENTIONS IN AMERICA'S GROWTH— (1750-1850) (Colour) 11 MINS.
In 1850, when the first reaper comes to his community, an old settler recalls his first sights of the spinning jenny, cotton gin, steam engine, steamboat, locomotive, and telegraph — inventions of his lifetime — and remembers the effects of these machines in meeting the needs of a growing America. Authentic machines and models are shown.

SS-403 INVENTIONS IN AMERICA'S GROWTH— (1850-1910) (Colour) 11 MINS.
The boy who saw his first reaper in 1850 grew to manhood and moved to the city, as machines concentrated population. By 1910, Jonathan Sharpe's life — and that of millions of others who lived in that "Age of Miracles" — was revolutionized by the phonograph, telephone, electric lamp, streetcar, motor car, aeroplane, and radio.

SS-431 JAMESTOWN COLONY (1607 through 1620) (Colour) 22 MINS.
This vividly dramatic record of events at Jamestown is rich in authentic details made possible by the historically accurate reconstructions at the Jamestown Festival of 1957. The Colony's early history is chronicled, showing the voyage of the first settlers from England, and the faith and dedication required of them and later arrivals in overcoming the hardships in America and in permanently establishing their colony.

SS-279 MIDDLE STATES 11 MINS.
This film describes the region's agricultural resources, industrial and commercial activity, and its role as the hub of the nation's transportation system. Stress is placed on the significant contribution of the Middle States to the nation's economy.

SS-558 MISSISSIPPI RIVER, THE (Colour) 13½ MINS.
By houseboat, we follow the historically famous "Father of Waters" which, with its tributaries, forms a vast net of waterways, linking great agricultural and industrial areas with important cities and ports. This interesting film emphasizes the importance of the Mississippi as a drainage basin for more than a third of the continent, and indicates its geographic, commerical, and historic influence on its adjacent lands.

SS-40 NAVAJO CHILDREN 11 MINS.

This film shows a Navajo family moving from its winter quarters to its summer home. Preparations for the journey, scenes along the route, an overnight camp, and archery practice, are interesting sequences. Activities at the new home include plowing, planting of corn, and sheep herding.

SS-81 NAVAJO INDIANS 11 MINS.

This film deals with life of Navajo Indians in their homes in the desert region of the southwestern United States. A pony race, dances, rug-weaving, home-building, and cooking are presented. The film closes with scenes taken at a Navajo wedding.

SS-83 NEW ENGLAND, EARLY SETTLERS OF 11 MINS.

Re-enacts the lot of Salem's hardy pioneers about 1626. Types of people; the proximity of their bark wigwams and dugouts to the seashore; their dependence upon the sea and land for food; the need for mutual assistance; division of labour; care of the sick; problems of crop cultivation; relationships with England, and background elements of American democracy are portrayed.

SS-86 NORTHEASTERN STATES (Colour) 11 MINS.

The development of resources in West Virginia, Maryland, Delaware, District of Columbia, New Jersey, Pennsylvania, New York, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire and Maine. Following this historical background, features of the land, people, natural resources, the textile, clothing, and heavy industries are shown in their interrelated aspects. Consideration also is given to transportation and recreational facilities. Interdependence with other sections of the United States is indicated.

SS-281 NORTHWESTERN STATES (Colour) 11 MINS.

Animated maps illustrate geographical characteristics of these States, and stress the natural resources and population trends. Scenes portray agricultural, mining and lumbering activities, recreational facilities, and cultural advantages.

SS-491 PHILIPPINES (Colour) 18 MINS.

This film is designed to help students understand how the people of the Philippines are solving present-day problems. It develops insight into modern ways of living, and the institutions and goals of this new nation of the Orient. Particular emphasis is paid to new economic and social developments now taking place.

SS-94 PIONEERS OF THE PLAINS 11 MINS.

Traces the experiences of a pioneer family in journeying from Illinois to a homestead on the Midwestern plains. Sequences include: relationship with other settlers and cattlemen; building and decorating a sod house; ploughing; collecting fuel; and contacts with a circuit-riding minister. Conversations and music of the time lend reality to the picture.

SS-378 PLANTATION SYSTEM IN SOUTHERN LIFE 11 MINS.
Life on a typical southern plantation is recreated so that historic scenes can be related clearly to their modern counterparts. The film presents information on the organization of a plantation, economy as dominated by cotton crop; and the effect of the Civil War.

SS-564 PLYMOUTH COLONY: THE FIRST YEAR (Colour) 16 MINS.
Scenes filmed at authentically reconstructed Plymoth Plantation at Plymouth, Massachusetts and on board the Mayflower II give a vivid, authentic quality to this re-enactment of important events during the first year of Plymouth Colony. This film tells the inspiring story of the Pilgrims' struggle with great hardship and disease, and their lasting accomplishment in establishing principles of freedom and democracy in the New World.

SS-492 PONY EXPRESS IN AMERICA'S GROWTH, THE (Colour) 11 MINS.
The film portrays the dramatic story of the Pony Express — its inauguration and operation until the completion of the telegraph line across the west. We see the existing methods of communication in the late 1850's, and the need for better communication between the new states of California and Oregon and the East. Costumed re-enactments show the first Pony Express rides.

SS-379 PURITAN FAMILY OF EARLY NEW ENGLAND 11 MINS.
The Giles Phippes family, living in a small New England coastal village, participates in many activities and chores — the children learning from a hornbook, digging clams, spinning wool; the mother cooking cornbread, making soap and candles; and the father hunting and dressing skins.

SS-295 SOUTHEASTERN STATES (Colour) 11 MINS.
This film contains an overall study of this region — its people, agriculture, industry, and heritage. Maps analyze geographical features. Emphasis is placed on the great agricultural activity and growth in industry and commerce.

SS-296 SOUTHWESTERN STATES (Colour) 11 MINS.
The vastness of this area is stressed as well as its multiple industries — irrigation, stock raising, agriculture, mining, and oil. Animated maps depict the geography in this region.

SS-438 TOM SAVAGE (Boy of Early Virginia) (Colour) 22 MINS.
The story of Tom Savage, a 13-year-old boy, who was given to the Indians as a token of friendship and so learned their language and their ways and grew up to be the colonists' official interpreter with the Indians. His experiences in the first three years of the colony's existence are depicted.

SS-523 UNITED STATES EXPANSION: SETTLING THE WEST (Colour) 14 MINS.
In the period between 1853 and 1890 the largest frontier region of the West was settled. Tracing this settlement of the area which extended westward from Iowa and Missouri to the mountain ranges of California and Oregon, we see the frontier developed by the early miners and cattle ranchers, and later by the farmers and homesteaders. The period is visualized through re-enactments on original locations.

SS-637 THE WESTWARD MOVEMENT—I (Colour) 15 MINS.
(Settlers of the Old Northwest Territory)
This film presents interesting studies of the different types of early settlers: a family from New England, a surveyor from Virginia, and a Kentucky frontiersman. Many buildings, means of transportation, tools, and crafted articles of the period are shown in actual use, as we witness the first mass migration of settlers to the Northwest Territory shortly after the Revolutionary War.

SS-638 THE WESTWARD MOVEMENT—III (Colour) 17 MINS.
(Settling of the Great Plains)
Through imaginative use of authentic photographs, documents, and illustrations of the period, this film recaptures the atmosphere and the spirit of "homesteading" on the Great Plains. It examines the geographic and cultural factors that hampered permanent settlement in this area, and describes the developments that helped overcome these difficulties.

Mexico

SS-172 HACIENDA—LIFE IN OLD MEXICO (Colour) 11 MINS.
This film portrays life in San Carlos, an old-fashioned, self-sufficient community, eight days on horseback from modern civilization.

SS-156 MEXICAN CHILDREN 11 MINS.
This film tells a simple, delightful story of two Mexican children, depicting their experiences at home, at school, and at play. Brother and sister help with the home tasks, play with their pets, attend school, and go with Mother to visit Father in the fields. The family attends a colourful fiesta where the children see various displays and enjoy stirring Aztec dances.

SS-78 MEXICO, LAND AND PEOPLE (Colour) 20 MINS.

Tells a graphic story of the origin, history, and present status of the Mexican people. Emphasis is placed on the habits and customs of the people in rural areas. Corn harvesting and grinding, home-building, pottery making, and handicraft work are among the activities shown. Barter in the village stalls makes up a picturesque sequence. Scenes of mining activities and glimpses of life in Mexico City complete the story. This is a revised edition of the film "People of Mexico".

SS-570 SPAIN IN THE NEW WORLD (Colour) 13 MINS.

This film takes us back to a period when colonial Mexico was the brightest jewel in the Spanish crown. There are the overseers and artisans of the period, people of mixed Spanish and Indian blood . . . and the Indians who laboured in the silver mines on the vast haciendas of Spanish noblemen. There are scenes of pomp and spectacle, scenes of poverty and primitive customs, forming a rich mosaic of vivid colours and sharp contrasts . . . showing that many traditions which date back to New Spain are still a vital part of Mexico today.

South and Central America

SS-386 AMAZON: PEOPLE AND RESOURCES OF NORTHERN BRAZIL (Colour) 22 MINS.

The people and resources of Northern Brazil are presented in this film story of the largest river in the world. In beautiful colour sequences the film traces the story from the river's source to its mouth. It should prove effective in stimulating social studies at the Intermediate grade level.

SS-8 AMERICA, CENTRAL (CARRIBEAN REGION) 11 MINS.

Describes the geography and climate of Central America and the story of its peoples with their present-day activities. Photographic sequences depict the type of people and economic activities of the region, including agriculture, manufacturing, commerce, and transportation.

SS-10 ANDES, THE—CHILE BARRIER (Colour) 11 MINS.

The influence and the importance of the Andes in relationship to Chile and the rest of South America are shown. Concentration of population, industries, mining, water power, and transportation are well illustrated. A summary shows the good and bad effects of the Andes on the economic and social development of this region.

SS-12 ARGENTINA: PEOPLE OF THE PAMPA (Colour) 16 MINS.

This film illustrates rural and urban life in Argentina — the agricultural area and the centre of commerce and industry, Buenos

Aires. It points out that the economic vitality of the urban areas depends on the products of the pampa — the wheat, flax, corn, wool and beef that Argentina exports to the rest of the world.

SS-23 BRAZIL 16 MINS.
Recent developments in the modern cities of Rio de Janeiro, Santos and Sao Paulo are illustrated. The natural resources, occupations of the people, and social customs are revealed. Schools, churches, and marketing coffee are shown.

SS-534 BRAZIL: GEOGRAPHY OF SOUTH AMERICA (Colour) 14 MINS.
Brazil is a country of frontier lands and great promise. This film acquaints us with the geographic features of Brazil and shows us their relationship to such important crops as coffee, cotton, and cacao. We see a land of impenetrable jungle, fertile farmlands, gigantic plantations, rich mineral resources, thriving industry, and big cities, including a sequence on beautiful Brasilia, new capital of Brazil.

SS-355 BRITISH GUIANA (Colour) 30 MINS.
An extensive trip through the colony of British Guiana gives a general picture of the geographical aspects, the industrial life, transportation, etc., as it is today.

SS-536 CHILE (Colour) 20 MINS.
The story device here is to meet one boy at home with his family and then follow him to school. In school, he and three other children talk about the four major regions of the country which they either had originally come from or had recently visited: Central valley near Santiago; North Chile, and the port city of Antofagasta; Valparaiso; and Southern Chile, including Conception. After school, we follow the same boy again through Santiago — and see some of its past, present and future.

SS-47 COLOMBIA AND VENEZUELA 11 MINS.
Describes the human and economic geography, topography, and climate of Colombia and Venezuela. Photography shows the several types of people that live here and their work — farming, mining, shipping, manufacturing. The industrial and agricultural aspects present interesting contrasts throughout the film. Animated map drawings show the extent of Colombia-Venezuela world trade in the import and export of products. Provides an introduction to Latin America.

SS-539 COUNTRIES OF THE ANDES (Colour) 11 MINS.
Colourful views of the mountains, the highlands, and the people are seen against a historical and geographical survey of Bolivia,

Ecuador, Peru, and Chile. The main topographical regions are described in relationship to the resources and cultural development of these Andean nations.

SS-468 GEOGRAPHY OF SOUTH AMERICA: FIVE NORTHERN COUNTRIES (Colour) 11 MINS.

The economic concepts related to land, climate, and major resources are emphasized in this film on the gateway countries of South America — Colombia, Venezuela, and the three Guianas. We meet the people, learn of their ways of life, and observe the many modern developments which industrialization has brought. The type of government of each country is touched upon briefly.

SS-545 GUATEMALA—NATION OF CENTRAL AMERICA (Colour) 17 MINS.

In its variety of climate and people, Guatemala is very much like other countries of Latin America: a developing nation with a substantial part of its population living primitively, unmindful of life beyond the small upland villages.

An Indian teacher introduces us to Thomas Morales and his family. From Juan Perez, manager of a large banana plantation, we learn of an entirely different world — that of the plantation where farming is geared to profit and where all the advantages of the modern world are utilized.

SS-548 INCAS, THE (Colour) 11 MINS.

Filmed at authentic sites, and using archaeological remains and existing Peruvian Indian village life, this film presents a historical, geographical, and cultural view of the Incan civilization. Discussed are the distinctive features of the Incan government and of the economy based on agriculture and small industries and crafts.

SS-552 LIFE IN GRASSLANDS: ARGENTINE PAMPAS (Colour) 11 MINS.

With a visit to the "estancia" of Senor Molinos and his family, we become acquainted with family and community life on one of the representative grasslands of the world. We learn something of the climate and geography of the Argentine pampas, a region which produces abundant food crops, fine cattle and sheep.

SS-553 LIFE IN THE HIGH ANDES (Colour) 11 MINS.

This film shows how life in high mountain regions is affected by altitude and climate. Visiting an Indian family living in a mountain valley in Peru, we learn how farming, grazing and weaving are important to their lives. The camera shows the influences of the ancient Incan civilization and presents colourful views of market day in the village.

SS-191 PAMPAS, HORSEMEN OF THE 22 MINS.

Opening with scenes of Buenos Aires, the film shows the importance of the pampas to that city. The remainder of the film deals with life on a typical "estancia". The varied daily tasks of a tenant family are pictured, centering around a twelve-year-old boy. As a climax, a herd of cattle is rounded up, driven to Buenos Aires, and marketed.

SS-434 PANAMA CANAL, THE (Colour) 11 MINS.

Tracing the history of the Panama Canal, this film explains how it operates and its significance to world transportation. A trip through the canal and views of life in surrounding cities develop full understanding of this great waterway.

SS-192 PANAMA: CROSSROADS OF THE WESTERN WORLD (Colour) 11 MINS.

As the link between Atlantic and Pacific, Panama is a country where passage, transfer, and mixture permeate the cultural and economic life. As a result the country is a blend of old Spain and American progress in its architecture, social customs, agriculture, and industry, as shown by the camera.

SS-562 PERU (Colour) 20 MINS.

The film begins with an Indian boy looking out over the Andes Mountains while tending sheep near his small village. After seeing something of village and family life, we visit other parts of the country the boy has never seen: Cuzco and the market there; Machu Picchu, the spectacular lost city of the Incas; Lima where the boy's sister and brother work; and the oil wells of the countryside.

SS-490 PERU: PEOPLE OF THE ANDES (Colour) 16 MINS.

In the highlands of the towering Andes Mountains of Peru live the Indians who are descendants of the highly developed Inca civilization. This film explores the colourful Chincheros Valley near Cuzco, the walled city which was the capital of the Inca empire; contrasts community life in a self-contained Indian village with that of the tenant farmers who work on the large estates called haciendas. Peru's recent economic progress is reflected in the many new mining camps, improved transportation, and the wealth concentrated in Lima, the beautiful and modern capital city.

SS-607 SOUTH AMERICA (Colour) 20 MINS.

In this overview film study, we gain a composite picture of the contrasts, progress and tempo of the awakening continent. A number of additional concepts not touched on in the films dealing with individual countries such as social unrest, the communist danger, the emergence of Latin America in international politics, are discussed.

SS-569 SOUTH AMERICA: GEOGRAPHY OF THE CONTINENT (Colour) 14 MINS.

This film acquaints us with the main geographical features of South America: The Andes, the Guiana and Brazilian highlands; and the Orinoco, Amazon, and Plata-Parana river basins. The film shows the relationships of these geographic factors to the people and their ways of life, and provides a survey of agriculture, industry, commerce, cities, and culture in South America.

West Indies

SS-139 WEST INDIES 11 MINS.

Portrays the principal West Indies Islands, and shows their strategic importance to Western Hemisphere trade, economy, and international relationships. Unique character of the tropic islands is shown in sequences on topography, climate, discovery, and peoples. Native farming, plantations, and export and import trade show tropical products. Recent trends are indicated.

Clothing

SS-357 CLOTHES WE WEAR 11 MINS.

This film discusses animal, plant and synthetic fibres; contrasts primitive methods of spinning thread and weaving cloth with today's methods; develops an appreciation of the abundance and value of the clothes we wear.

SS-43 CLOTHING 11 MINS.

Shows how man has met his needs for clothing. From the primitive attempts to secure clothing, the film scans the development of textile arts, with emphasis upon the influence of environment. Seasonal and occupational clothing of moderns is well shown.

SS-50 COTTON 11 MINS.

Tells the story of the making of cotton cloth, from the picking of the boll in southern fields to the packing and shipping of the finished cloth as it comes from the looms of a modern mill. Hand-picking of cotton is contrasted with the work of a modern mechanical picker.

SS-114 SHOES, MAKING OF 11 MINS.

Planned to show how shoes are manufactured in modern factories. This film traces the entire process from cutting the leather, through the assembly of various parts of the shoe, to the final polishing and packing. Shows how modern manufacturing processes affect everyday life.

SS-147 WOOL 11 MINS.

The complete story of wool from the sheep to finished sweaters. Flocks of sheep are seen in springtime as they are herded to the ranch for clipping. The shearing, fleece packing, sorting, washing, carding, and mixing processes are revealed, with the factory manufacturing the completed product.

Community Services

SS-443 BEHIND THE SCENES AT THE SUPERMARKET (Colour) 11 MINS.

The film describes the behind-the-scenes activities involved in the operation of a large supermarket. It illustrates the many people and jobs necessary to help the supermarket serve the community.

SS-456 COMMUNITY KEEPS HOUSE, A (Colour) 11 MINS.

Shows how a community keeps clean. Stresses how special machines clean streets, parks, schools; how rubbish and trash are buried or burned; and how each person can help the community keep house. For social studies and language arts.

SS-161 DOCTOR, THE 11 MINS.

Portrays the significant role of the doctor in modern society. Follows a child specialist through a typical day's activities — at his office, at the hospital, and at the home of a patient. Shows Dr. Cramer giving a young boy a routine physical examination, vaccinating a baby for smallpox, visiting his hospital patients, and diagnosing a case of measles.

SS-617 EVERYONE HELPS IN A COMMUNITY (Colour) 14 MINS.

A community grows from a farm in the wilderness, through the coming of the railroad, to a modern community. Work in pioneer days is contrasted with work today in which each person specializes in what he can do best. Film emphasizes interdependence and the benefits of division of labour in a community.

SS-464 FATHERS GO AWAY TO WORK (Colour) 11 MINS.

Three children playing house try to re-enact a typical day. David, the father, goes off to work but returns soon. So they try to figure out where daddies work all day. Then we see David's father drive to work as a construction worker driving an earthmoving machine. Ruth's father takes the bus to his office, where he checks his mail, dictates letters, telephones customers in selling his product. Patricia's father walks to his office, where he works as an artist doing commercial art work.

SS-59 FIREMAN, THE 11 MINS.

Firemen are shown performing their duties in the fire station. Sequences show the care of equipment, drills, testing of trucks, hose, ladders and life-saving devices. A real fire affords an opportunity to observe the firemen answering the alarm and extinguishing the blaze.

SS-473 HELPERS IN OUR COMMUNITY (Colour) 11 MINS.

While Susie, her classmates, and their teacher talk about the different kinds of helpers in their community, we meet many of these interesting people and learn about the important work that they do. The street repairman, the doctor, the storekeeper, the bus driver and others are represented. We see how all work together to make the community a good place in which to live.

SS-369 HELPERS WHO COME TO OUR HOUSE (Colour) 11 MINS.

As Joey's family moves into its new home, Joey learns that many people come to his house to provide many services. The newspaper boy, the mailman, the milkman, the garbage men, and others help Joey's family and other families in the community.

SS-620 JET PILOT (Colour) 18 MINS.

The documentary approach used in this film shows a Canadian pilot during an ordinary work day. Procedures involved in preparation for take-off, as well as the actual operations within the cockpit, are viewed through the eyes of the pilot. While the film is too technical for the primary grades, it is suitable for the intermediate division.

SS-96 POLICEMAN, THE 11 MINS.

The film describes the function of police officers in general, and follows a typical patrolman through a regular shift of duty. Lessons in pedestrian and traffic safety are developed. The role of the policeman in helping the blind, controlling school traffic, and rescuing a marooned kitten is illustrated.

SS-385 WHAT OUR TOWN DOES FOR US (Colour) 11 MINS.

During a visit to his town hall to buy a bicycle tag, Billy sees the services provided the community by its government. On his tour he sees something of local government organization and the part taxes play in the operation of the community government.

SS-581 WIRES TO OUR HOUSE (Colour) 14 MINS.

Many wires are necessary to distribute power safely throughout the house. The film explains how various wires are channels for the transmission of power and communication.

Food

SS-160 COFFEE, A STORY OF 11 MINS.

The various steps in the production of coffee in Brazil are shown in simple, interesting fashion. Scenes include planting, picking, washing, drying, processing, bagging, grading, and finally the shipping of cargoes of the raw coffee beans from the port of Santos.

SS-52 DWELLERS IN COLD COUNTRIES 11 MINS.

Begins with an explanation of the causes of the cold climate in the Polar regions. Pictures taken on the Byrd expedition are shown. Sequences of life in Alaska and Siberia at a fur-trading post with fur-bearing seals, hunting of whales, walruses, and an annual reindeer round-up are included.

SS-60 FOOD STORE, THE 14 MINS.

Here we see Jack and Ann who help their mother with the marketing in a local self-service store. They select fruits and vegetables, canned goods and meat. They learn that different wholesalers supply the store. Finally we see them at the cashier's counter before they load the groceries on their wagon for the trip home.

SS-597 FOODS FROM GRAINS (Colour) 11 MINS.

Visiting his uncle's bakery, Bobby sees the steps involved in making bread. He learns that bread is only one food made from grains, and a shopping trip to a supermarket shows him many others. Bobby also learns where and how the most important grains — wheat, corn, oats, rice, and rye are grown and harvested.

SS-63 GRAPEFRUIT 11 MINS.

The cultivation of grapefruit, including the growth of seedlings in nurseries, spraying to eliminate pests, and the taking and planting of cuttings is seen in detail. These scenes are followed by the portrayal of the harvesting, examining, washing, grading, and packing of fruit ready for transport to the markets of Canada and the British Isles.

SS-472 GREEN GOLD (THE STORY OF BANANAS) (Colour) 11 MINS.

Much co-ordinated effort on the part of workers is required before bananas are ready for market and consumption. This film traces in detail all the phases from the clearing of the jungle to the loading of the steamship.

SS-404 LIFE IN COLD LANDS (ESKIMO VILLAGE) 11 MINS.

Fishing, seal hunting, trapping animals for fur, putting up the tent which is their summer home, shopping in the village store — these are shown.

SS-498 RICE IN TODAY'S WORLD (Colour) 11 MINS.
Showing the importance of rice as a major food crop, this film points out rice-producing areas around the globe. Factors contributing to rice growing are explained, such as proper climate, water supply, and terrain.

SS-608 STORY OF MEAT IN CANADA (Colour) 25 MINS.
All phases of the meat industry are presented, from livestock on the range to packaged meat in the supermarket, with emphasis on: methods of marketing cattle, sheep and hogs, the operations within the processing and packing plant, and Government inspection for the protection of the consumer.

SS-610 THIS IS COFFEE (Colour) 14 MINS.
A step-by-step outline of the correct procedures for making coffee in any of the conventional home coffee makers, drip pot, percolator and vacuum pot. A portion of the story briefly traces the stages of the product from bean to cup.

SS-141 WHEAT FARMER, THE 16 MINS.
Portrays the life of a wheat farmer and his family on a modern large-scale wheat farm in a typical midwestern area in United States. Attention is focused on the importance of the growing of wheat to our everyday existence.

SS-413 WHERE DOES OUR FOOD COME FROM? (Colour) 11 MINS.
Helping his father in the grocery store, Dickie wonders where our foods come from. The men who deliver dairy products, meats, and fresh fruits and vegetables help Dickie learn of the places where our foods are grown and processed and of the people who work together to bring them to us.

SS-514 WHERE DOES OUR MEAT COME FROM? (Colour) 11 MINS.
Visiting Uncle Phil's feeder farm, Wes and Emily want to know where our meat comes from. Uncle Phil explains, and the film shows, that the story of meat starts in the western range country, and is continued on the corn-belt feeder farms. We see the livestock going on from there to the stockyards and packing plants. The processed meat is then taken by refrigerated railway cars to the local market from which we purchase it and bring it into our homes.

History

SS-248 ABRAHAM LINCOLN 22 MINS.
This film re-enacts episodes in Lincoln's life which characterize him as an outstanding exponent of human freedom. It traces events of

his boyhood which reveal his unforgettable qualities of integrity, humour, common sense and tenderness, and associates familiar Lincoln quotations with the actual historical incidents which prompted them.

SS-583 ACROPOLIS (Colour) 11 MINS.
The temples of the Acropolis of Athens are amongst the finest achievements of classical Greece. This film describes the artistic and architectural significance of the buildings and their scupltures and brings to life the glory of a past age.

SS-350 AGE OF DISCOVERY: ENGLISH, FRENCH AND DUTCH EXPLORATION (Colour) 11 MINS.
Searching for a water route to the riches of the Orient, English, French, and Dutch explorers added their achievements to the earlier Spanish and Portuguese explorations. The routes followed by Cabot, Verrazano, Cartier, Frobisher, Hudson, Drake, and Raleigh are shown, and the effects of their expeditions to North America are analyzed.

SS-249 AMERICAN REVOLUTION (Colour) 16 MINS.
A clear explanation of the strategy, the struggle, the movement of forces, and the important military engagements of the war for independence. Stresses geographical and social factors which brought victory to the thirteen states. Animated drawings and colour photography cover the terrain and battlefields over which the war was fought.

SS-250 ANCIENT EGYPT (Colour) 11 MINS.
A visit to Egypt — to see the great Sphinx, the Temple at Karnak, and many examples of famous Egyptian sculpture — is made. Three spheres in which the Egyptian civilization has contributed to western culture — development of agriculture and community living, discoveries in the arts and sciences, and evolvement of religion through their polytheism — are developed.

SS-351 ANCIENT GREECE (Colour) 11 MINS.
Photographed in Greece, this film is an authentic document. It offers an ideal dramatization of one of the most important periods in human history, showing the Parthenon, the village of Sparta and the Acropolis.

SS-440 ANCIENT ORIENT (Colour) 14 MINS.
In India, China, and Japan, we trace the growth of early oriental civilizations through re-enactments and authentic locales. The film is enriched with early manuscripts, paintings, sculpture, and architecture to show the heritage and ideas that have shaped oriental life and thought from ancient times to the present day.

SS-9 ANCIENT WORLD INHERITANCE 11 MINS.

This film can be used to motivate and vitalize the study of ancient history. It relates the achievements of ancient civilization to the modern world. By a visual comparison of the ancient with the modern, the student is shown how such everyday articles as textiles, paper, agricultural implements, machines, and such institutions as writing and organized law are inherited from the cultures of the Egyptians, Babylonians, Assyrians and other ancient peoples.

SS-532 BALDWIN, R.—MATTER OF PRINCIPLE 33 MINS.

A stirring reconstruction of the Upper Canada Rebellion of 1837, places emphasis on the role played by the Reform Leader. Some insight is given regarding the revolt against a corrupt government, together with the struggles and hardships endured before the final enactment of Constitutional Reform.

SS-533 BOLIVAR: SOUTH AMERICAN LIBERATOR (Colour) 11 MINS.

Authentic locales in Venezuela, Ecuador, Peru, and Colombia lend vividness and immediacy to this biography of the liberator of five South American countries and his dream of a united South America. This film explains the factors which led Simon Bolivar to abandon his fortune and position and relates his life to the development of democracy in South America.

SS-416 BRITISH MONARCHY, THE 22 MINS.

This film is intended to illustrate the function of the British system of limited constitutional monarchy in the present state of the British Commonwealth and Empire. The monarchy provides continuity and unity. The idea of continuity is presented by showing the historical development of the British monarchy, and something of the constitutional functions of the sovereign. The idea of unity is shown by scenes illustrating the monarch's public duties, and her position in relation to other countries of the Commonwealth and Empire.

SS-447 BOY OF RENAISSANCE ITALY (Colour) 14 MINS.

Photographed in Florence, Italy, this film provides intimate glimpses into life during the Renaissance. Young Niccolo, an apprentice artist of 1500, shows us the people of the times — the rich merchants, peasants, soldiers, artists, and professors — and introduces us to the spirit of the Renaissance.

SS-449 BYZANTINE EMPIRE, THE (Colour) 14 MINS.

The Byzantine Empire had become, by 750 A.D., the richest and most powerful in the world. The film presents a brief historical outline of the Empire, and indicates its important cultural contributions in the areas of art, religion, and scholarship. Photographed principally in Greece and Turkey, the film captures the richness of mosaic works, icons, and architecture.

SS-639 CANADA BETWEEN TWO WORLD WARS 22 MINS.
This film presents a twenty-year review of life in Canada between the end of the First World War and the beginning of the second. Political, economic and social changes are evident but are viewed against the collective life of the nation, its moods and manners.

SS-585 CANADA IN WORLD WAR I 17 MINS.
This film shows the First World War in context of world developments before and since. It uses motion pictures of the period to present a vivid and authentic record of events from 1914 to 1918, in Canada and in Europe. From the royal assassination that triggered it, to the Armistice that ended it, the film places in perspective the war that was to end war.

SS-330 CAPTAIN JOHN SMITH 22 MINS.
The first part of the film deals with the selection of the men who founded the first English settlement at Jamestown, Virginia. It shows also how the governor of the colony was selected, the hardships in founding the colony, jealousy among the men which led to conspiracy. There is a vivid portrayal of the capture of John Smith and of Pocahontas saving his life. The closing scenes show Smith's recall to England after he had re-organized the colony.

SS-586 CARTIER, GEORGES-ETIENNE 29 MINS.
Quebec's representative in the strained years before Confederation was G. E. Cartier, known as the Lion of Quebec. Through this film we are reminded of the prominent place he held in the shaping of Canada as a Nation, while protecting the cherished rights of language and religion for his own province.

SS-158 CHRISTOPHER COLUMBUS 22 MINS.
This film clearly dramatizes the highlights in the life of Columbus, including his boyhood dreams of travel and adventure, his tireless search for aid in organizing an expedition, his long and hazardous voyage westward, and finally his landing at San Salvador.

SS-589 CITY, THE (Colour) 11 MINS.
Dramatically illustrates the characteristic features of a complex, modern city; its many different types of buildings — private homes, apartments, office buildings, schools, stores, factories; its diversity of neighbourhoods; major transportation facilities; the huge sprawl of suburban areas; and the city's elected government body which provides services, such as fire and police protection, for the many people who live there.

SS-306 CIVIL WAR, THE (Colour) 22 MINS.
The most important military events of the war between the North and the South are traced in chronological order. Stress is placed

on the social, economic, and geographical factors which ultimately forced the South to capitulate. Animated drawings and colour photography trace in an imaginative realistic way the strategy and geographical setting on which the war was fought.

SS-358 COLONIAL EXPANSION OF EUROPEAN NATIONS (Colour) 16 MINS.

This exciting story of the 16th and 17th centuries tells some of the many reasons why large numbers of Europeans left their native lands to gain great empires, and the influence of this period on the course of history to the present day.

SS-453 COLONIAL SHIPBUILDING AND SEA TRADE (Colour) 11 MINS.

Economic factors are shown that led to the development of Colonial shipbuilding and sea trade: the need for exchanging goods amongst the Colonies and with Europe, New England geography, available skilled workers and business investors. Viewers learn how Colonial trade routes were established and the effect of restrictive English navigation laws.

SS-307 COMMONWEALTH OF NATIONS 30 MINS.

This film shows the present nature, and extent, of the British Commonwealth; its constitution, purpose, the benefits deriving from it, and the relationship among its members.

SS-232 DAVID LIVINGSTONE 22 MINS.

By maps, actual shots, and commentary this film tells the story of the famous missionary and explorer. It dwells particularly on his attempts to find a route to open up the interior of Africa for Christianity and legitimate commerce and thus to end the slave trade.

SS-457 DECLINE OF THE ROMAN EMPIRE (Colour) 14 MINS.

In 200 A.D., Rome was a far-flung empire which reached from the Middle East to Spain, from Northern Africa to Great Britain. In 476, it was invaded and looted by barbarian tribes and ceased to exist as an empire. This film, covering this dramatic period, uses actual settings in France, England, the Near East and Rome itself to present the political, social, and economic forces which weakened the Empire from within and the forces from without which brought about its decline.

SS-458 DINOSAUR AGE, THE (Colour) 14 MINS.

Presents the age of dinosaurs through the work of museum paleontologists as they discover the fossil remains of a giant reptile and reconstruct its skeleton. Your classes will see and understand how man has learned about past life on earth.

SS-393 EIGHTEENTH-CENTURY ENGLAND: PEOPLE AND PLACES (Colour) 11 MINS.

Neoclassicism, rebellion, and adventure are some of the facets of this dynamic century shown, by this film, through paintings by Hogarth and Gainsborough, the architecture of a famous English house, sculpture, figurines, and scenes of navigation instruments and ships. All these are used to reveal insights into the lives and ideas of both aristocrats and commoners in eighteenth-century England.

SS-594 ENGLAND—INDUSTRIAL EMPIRE (Colour) 17 MINS.

This film emphasizes the role that England has played in the development of Western Civilization, and stresses the many contributions which this nation is making in modern times. It presents several well-known English landmarks, and helps students visualize the many economic activities which provide a livelihood for the British people.

SS-595 THE ENGLAND OF ELIZABETH (Colour) 26 MINS.

This film carries the viewer back to the 16th century, to the greatness and glory of the Elizabethan period. Many events and personalities of the period are brought to life, including the Reformation movement, Caxton's invention of the printing press, Admiral Drake's conquests, and Shakespeare's contribution to English literature. Elizabeth is portrayed in all her strength and determination, as monarch of the rapidly developing, powerful England.

SS-540 ENGLISH AND DUTCH COLONIZATION IN THE NEW WORLD (Colour) 11 MINS.

As the film reconstructs the beginnings of settlement in an English agricultural colony in Virginia, a Dutch trading colony in New York, and a Pilgrim colony in Massachusetts, we learn some of the basic motivations and patterns of colonization.

SS-425 ENGLISH CRIMINAL JUSTICE: HOW THE LAW IS ADMINISTERED 16 MINS.

In England there are different courts according to the gravity of the offence. The main principles for English Criminal Law are: the accused is tried by jury; he is presumed to be innocent unless he can be proved guilty; he does not have to pay for his own defence; and the trial takes place in open court with the press and public present.

SS-460 ENGLISH HISTORY: ABSOLUTISM AND CIVIL WAR (Colour) 11 MINS.

Re-enacted are the conflicts during the reigns of James I and Charles I, the Civil War and Commonwealth period, and the restoration of the monarchy. The balance of power between the Crown and Parliament and steps in the evolvement of the limited monarchy are clearly discussed.

SS-309 ENGLISH HISTORY: EARLIEST TIMES TO 1066 11 MINS.

Discusses the building of Anglo-Saxon England, emphasizing the many different peoples and cultures which were its ingredients. Authentic landmarks and historical materials from 1900 B.C. to 1000 A.D. are blended with brief re-enactments of important historical events to give a compressed, yet vivid, panorama of the island of Britain and the assimilative process which was the making of the English nation.

SS-310 ENGLISH HISTORY: NORMAN CONQUEST TO THE 15th CENTURY 11 MINS.

An overview of medieval England from the Conquest in 1066 to the decline of feudalism, this film discusses the concept of limited monarchy as the basis of the English form of democracy. We see some of the many milestones, such as trial by jury and the Magna Carta, that marked the recognition and growth of human rights in Britain.

SS-461 ENGLISH HISTORY: NINETEENTH-CENTURY REFORMS 14 MINS.

Evolution, rather than revolution, was characteristic of English political reform in the 19th century. Covering the period between the First Reform Bill of 1832 and the Third Reform Bill of 1884, the film shows the factors influencing the English political adjustment to the industrial revolution and makes clear the results of the major political and social legislation.

SS-426 ENGLISH HISTORY: RESTORATION AND GLORIOUS REVOLUTION (Colour) 11 MINS.

Characterized by a conflict of roles between Parliament and the Crown, this period resulted in the establishment of a true constitutional monarchy. Authentic settings provide background for the restoration of Charles II, the succession of James II, and the coming of William and Mary, the first monarchs to rule under constitutional limitations.

SS-311 ENGLISH HISTORY: TUDOR PERIOD 11 MINS.

Covering the period from 1485 to 1603, this film treats the growth of the national state under Henry VII and Henry VIII, with emphasis on the reign of Queen Elizabeth and the rise of Tudor England as a leading world power. The film discusses English culture at the height of the Elizabethan period and its successful transplanting to America.

SS-233 ENGLISH INFLUENCES IN THE UNITED STATES 11 MINS.

This film traces some of the basic influences of English culture on the American way of life. Among these are the idea of democratic action, the body of law, freedom of speech and press, religious tolerance, language and literature, art forms, and styles.

SS-462 EXPLORATIONS OF PRINCE HENRY, THE 13 MINS.

This film presents a comprehensive view of the life and achievements of Prince Henry the Navigator, emphasizing the significance of his contributions to the Golden Age of Discovery and the rise of the Portuguese Empire.

SS-596 FRANCE IN THE NEW WORLD (Colonial Life in Canada) (Colour) 16 MINS.

This film reviews early exploration in North America by Cartier, Champlain, La Salle, and other French explorers, and shows the settlement of thousands of Frenchmen in the region along the St. Lawrence River between Montreal and Quebec, during the early 1700's. The influence of these first colonists in French Canada is still evident today in every aspect of life in that region.

SS-467 FRENCH AND INDIAN WAR (Colour) 13 MINS.

The dramatic period in our nation's history when England struggled with France for control of the North American continent is recreated in this film study. In addition to exploring the causes and results of the conflict, the film shows highlights of the French and Indian War, the Albany conference, Braddock's defeat, and finally, ultimate victory for England as Wolfe defeats Montcalm at Quebec.

SS-264 FRENCH INFLUENCE IN NORTH AMERICA (Colour) 11 MINS.

From the Gulf of the St. Lawrence to the mouth of the Mississippi, the great French Empire in North America left a profound influence upon the culture of this continent. We see evidence of this in our language, dress, architecture, and religion. Authentic historical locations from Quebec to Louisiana are presented to document the widespread movement and influence of French explorers.

SS-394 FRENCH REVOLUTION, THE (Colour) 16 MINS.

The controversial issues, great personalities, and turbulent events leading to and through the French Revolution are brought to the screen through the experiences of M. Roget, lawyer and member for the Third Estate. Dramatized episodes in European settings bring vitality to the study of this significant epoch.

SS-395 FOOD AND PEOPLE (An Introduction to the World's Food Problems) 25 MINS.

This film, consisting almost entirely of outstanding documentary footage, raises two basic questions: Can our world ever become one of plenty? Is a world of plenty really worth working for? Ways of increasing food production and of improving world-wide facilities for the distribution of foods are illustrated and discussed.

SS-598 GALT, ALEXANDER 29 MINS.

A united Canada was the ambition of Upper Canada's premier, Alexander Galt. He was known as the "Stubborn Idealist" because of his steadfast endeavour to bring about a federal union.

SS-470 GERMANY: FEUDAL STATES TO UNIFICATION (Colour) 14 MINS.

After centuries of turbulent history, the loosely associated German states became a unified nation and a major power in Western Europe. The film traces Prussia's growth in strength in the 19th century, shows how other German states were brought under its control and how, following Bismarck's policy of "blood and iron", she waged wars with Denmark, Austria, and France to establish a strong, unified German nation.

SS-170 GOOD SAMARITAN, THE 11 MINS.

The film shows vividly the story of the good Samaritan as it is found in the Bible. It dramatizes the incident involving the lawyer who asked Jesus, "Who is my neighbour?" The parable given in answer is portrayed on the screen.

SS-268 HIGH WALL, THE 30 MINS.

This film shows the development of racial prejudices in a logical, realistic manner. It reveals how prejudice was gradually built up in one boy through the discriminatory attitudes of his socially and economically frustrated parents, while his sister made an adequate adjustment in her life.

SS-313 HISTORY, BEGINNING OF 60 MINS.

The pre-history of Great Britain from the ice age to the coming of the Romans is shown. The underlying theme is the continuity of human life and culture, that the past is continuous with the present and the events of thousands of years ago helped to shape our own history and national characteristics.

SS-334 HISTORY IN YOUR COMMUNITY 16 MINS.

History is all about us. A number of eighth grade students discover this when they begin to look, read, and ask about the history of their community. An old elm, an abandoned well, and early tombstone inscriptions assume historical significance as the students learn that their community's history is part of the history of our country.

SS-618 HOLY LAND (Colour) 20 MINS.

Following an introductory sequence to show the location and geographical features of the Holy Land, the Bible Story is traced from Bethlehem to Calvary, with glimpses of most of the traditional sites. This is a new pictorial coverage of the Holy Land as it is today.

SS-335 HOLY LAND, THE 11 MINS.

This film is an aid in teaching geography, history, and literature of ancient Palestine. Maps and natural scenes show the relationships of Jerusalem, Nazareth, Lake of Galilee, River Jordan, Jericho, Mount Nebo, and other places referred to in ancient history and well-known Biblical stories.

SS-546 HOLY ROMAN EMPIRE (Colour) 14 MINS.

Photographed in Europe in authentic locales, this film brings colour and authenticity to the thousand-year history of the Holy Roman Empire. It describes how an enormous section of western Europe was united under the idea of a single Christian government. Costumed re-enactments with dialogue dramatize the division of powers and conflict between the Popes and the Emperors and the factors which led to the eventual decay of the Empire.

SS-173 HOUSES IN HISTORY 22 MINS.

The film shows the influence that historical events and movements have had on the architecture and building materials of houses. This is done by tracing the development and changes in house structure from the Fifteenth Century to modern times. The impact of classical models, of the industrial revolution, the effects of war and housing shortages on the style of homes is well shown.

SS-547 HOWE, J.—TRIBUNE OF NOVA SCOTIA 32 MINS.

As editor of the Nova Scotia "Tribune", Howe waged an unceasing campaign for political reform. This film presents a re-enactment of the trial of 1835 in which he was charged with seditious libel — a courtroom drama where the trial of a courageous editor became an indictment of a government which denied fundamental liberties to the people of the colony.

SS-399 INDIA'S HISTORY: BRITISH COLONY TO INDEPENDENCE 11 MINS.

The centuries during which India's people strove for independence, the role of the British East India Company, the realization of independence, and the creation of Pakistan and the Union of India, are examined. The film also presents the influence of Mohandas Gandhi, the changing relations between India and Britain, and the problems confronting India's two great peoples — Hindus and Moslems.

SS-430 INDIAN OCEAN (Colour) 16 MINS.

The Indian Ocean has played a major part in the growth and development of the interests of the West in the Far and Near East. The history of this development is traced from the 1700's through to the present day.

SS-215 INDUSTRIAL REVOLUTION 11 MINS.

This film outlines the industrial revolution from its beginning in England to its modern stage in America. It contrasts the great industrial progress of the last two hundred years with the slow advance of previous centuries. It explains how an increasingly high standard of living has resulted from the contribution of labour-saving machines, mass production, rapid communication, and fast transportation.

SS-236 INDUSTRIAL REVOLUTION, THE MEANING OF THE 11 MINS.

In proper sequence, the film unfolds the story of the industrial revolution through the last two hundred years, and shows how it has influenced the modern way of life. Pictures and voice trace the industrial, economic, and social changes brought about by discovery and invention, beginning in England and affecting the rest of the world.

SS-239 JERUSALEM, HOLY CITY (Colour) 11 MINS.

The ancient city, with its background of forty centuries of history, is pictured as the shrine of three religions — Jewish, Christian and Mohammedan. The film shows the city as it appears today, its landmarks reminiscent of events of the past.

SS-621 JOSEPH BRANT AND THE SIX NATION INDIANS (Colour) 10 MINS.

Good map sequences help clarify the history of the tribes which comprise the Six Nation Indians, and explain their settling along the Grand River near Brantford. The leadership of Joseph Brant, as an outstanding Chief, was recognized by the British Government through land grants, and by his countrymen by a statue in the city of Brantford.

SS-622 JULIUS CAESAR: RISE OF THE ROMAN EMPIRE (Colour) 24 MINS.

Using flashback technique, this film reviews Caesar's contributions to government, law and culture during the rise of the Roman Empire. It indicates vividly how similar were the problems faced by a ruler 2,000 years ago to those of our present era.

SS-600 LAFONTAINE, LOUIS-HIPPOLYTE 29 MINS.

The principal stages of Lafontaine's political career are vividly reconstructed to show the part he played in the struggle for responsible government. We also see him as Chief Justice of Lower Canada.

SS-478 LIFE IN ANCIENT GREECE: HOME AND EDUCATION (Colour) 11 MINS.

Filmed in Athens, Greece, the picture follows the activities of a typical family of this city in 440 B.C. Through a warm, human story of a young Athenian boy and a beautiful vase we learn how they dressed, how they worshipped, what their schools were like and of the education of the daughter in household arts. We also see the pottery factory which is the family's livelihood.

SS-479 LIFE IN ANCIENT GREECE: ROLE OF THE CITIZEN (Colour) 11 MINS.

Photographed in and around Athens, Greece, the film recreates the political and economic life in a Greek city-state in 440 B.C. We learn much about the privileges and responsibilities of citizenship in this early democracy as we travel with the boy, Leander, and his father through the countryside and the city. We visit a farm, a pottery factory, meet other citizens and watch Greek youths taking the momentous Ephebic Oath, prerequisite to full citizenship.

SS-623 LIFE IN ANCIENT ROME (Colour) 16 MINS.

Typical scenes and activities in the city of Rome during the reign of the Emperor Trajan are shown, with special emphasis on the contrast in the living conditions in a society dependent on slavery. The film examines the characteristics and achievements of the Roman Empire at the height of its power, and indicates its influence on the development of western civilization.

SS-554 LORD ELGIN—VOICE OF THE PEOPLE 30 MINS.

This is the story of Governor-General, Lord Elgin, successor to Lord Durham, who continued the fight for responsible government in the emerging Dominion of Canada. The Rebellion Losses Bill of 1849 is the focus of attention. On this Bill, Lord Elgin defended the principle that the Government has the sole right to establish and maintain the law of the land.

SS-555 LORD DURHAM 29 MINS.

Emissary of the British Parliament, Lord Durham was sent to find a solution to the political strife existent in Upper and Lower Canada. His careful assessment of the situation, together with the revolutionary proposals he advanced opened the way to self-government in Canada, although the personal cost to himself was great indeed.

SS-405 LOUISIANA PURCHASE (Colour) 16 MINS.

This film furnishes a background for understanding the causes and events leading to the Louisiana Purchase. Some results of this transaction are also outlined. Authentic materials, map animation, reenactments and dioramas are combined to present a dynamic reconstruction, which brings the people, problems, and events close to the experience of today's students.

SS-601 MACDONALD, JOHN A. 29 MINS.

Known as Canada's nation builder, John A. Macdonald realized his ambition for a united country and was chosen as the first Prime Minister. In this film we see the opposition he faced, and some of the issues which had to be resolved.

SS-556 WILLIAM LYON MACKENZIE—FRIEND TO HIS COUNTRY 29 MINS.

A rebel against the governing Council of Upper Canada in the 1800's, Mackenzie was active in the campaign for responsible government. Many of the stormy incidents of his life, his most decisive election victory and later defeat, his imprisonment and self-imposed exile, and finally his return to Canada are depicted.

SS-481 MAGNA CARTA, PART I: RISE OF THE ENGLISH MONARCHY (Colour) 17 MINS.

Traces the history of England from the Norman invasion in 1066 to the crowning of King John in 1199. The background of feudalism — against which the drama of English kings and barons was played — set the scene for the famous meeting at Runnymede.

SS-482 MAGNA CARTA, PART II: REVOLT OF THE NOBLES AND THE SIGNING OF THE CHARTER (Colour) 17 MINS.

Dramatizes the events after the crowning of John which brought the conflict between kings and barons to a climax — and resulted in the drafting of one of the imperishable documents of the English-speaking world: Magna Carta.

SS-338 MAHATMA GANDHI 22 MINS.

This is the life story of one of India's greatest men, and his influence on the history of his country. While some of the photography is of necessity old, it is authentic.

SS-339 MARCO POLO 22 MINS.

This is a dramatic account of the adventures of Marco Polo in the court of Ghengis Khan and indicates the influence Marco Polo has had on the course of history.

SS-219 MEDIAEVAL CASTLES 16 MINS.

This film deals with the development of the castle from the early defences of earth and wood to the great stone castles of the Middle Ages. It shows what kind of people lived in castles; how they attacked or defended the walls; how each new method of attack called for a new means of defence.

SS-372 MEDIAEVAL CRUSADE (Colour) 30 MINS.

The film recreates the settings in which the Crusades originated and were fought. Pope Urban II's appeal for help against the Moslems is answered by the Montbref family, and the attack on Jerusalem in 1099 is depicted. Changes which the Crusades brought to Western Christianity are shown.

SS-220 MEDIAEVAL ENGLAND 11 MINS.
This film pictures the life of a typical peasant in England during the Middle Ages. The part played by the monastery is indicated and scenes of castles and monastic houses are shown. The final sequence is a dramatization of a village fair, with scenes of dancing and merrymaking.

SS-373 MEDIAEVAL GUILDS (Colour) 22 MINS.
A composite mediaeval community of the eleventh century is shown. We visit a master shoemaker's shop, witness the initiation of an apprentice; see everyday life of journeymen; and an inspection by wardens of the guild. The transition of the guilds to trade companies is shown.

SS-374 MEDIAEVAL KNIGHT (Colour) 22 MINS.
This vivid dramatization portrays the training of a young seven-year-old page as he learns chivalry and fighting skills necessary for his time. Later scenes show his detailed training as a squire at fourteen years, and the final ceremony as he receives the symbols of knighthood.

SS-375 MEDIAEVAL MANOR (Colour) 22 MINS.
This excellent film shows a composite manorial household in the Middle Ages. The lord of the manor is shown as he inspects the guards, reviews the activities of artisans and craftsmen, and checks the labour of his workmen.

SS-76 MEDIAEVAL MONASTERY 22 MINS.
The main features of monastic life are shown in this film. A typical day in the life of a modern monastery, Buckfast Abbey, is traced, showing the monks in their various occupations from the illumination of manuscripts to gardening and stone masonry. Sequences introduce the various monastic officials, and stress is placed on the importance of the mediaeval monastery as a centre of scholarship and culture.

SS-136 MEDIAEVAL VILLAGE 22 MINS.
The social history of Laxton (a village in England in which the mediaeval open-field system is still used) is traced from the first map of Laxton made in 1630. The village, the church, and three open fields divided into strips are shown. The second half of the film shows the feudal survival of the Manorial Court, and the jury making the round of wheat-bearing fields, replacing boundary pegs and imposing fines for encroachment, the Pinder rounding up stray cattle and driving them into the village pound.

SS-316 MESOPOTAMIA, ANCIENT (Colour) 11 MINS.
The contributions of the Sumerians, Semites, Babylonians, and Assyrians who occupied the Tigris-Euphrates valley are depicted against authentic locales that include Babylon, Ur, and Nineveh. Interesting developments include the early use of the arch, the wheel, a code of laws, a system of writing, and military science.

SS-376 MIDDLE EAST: CROSSROADS OF THREE CONTINENTS (Colour) 14 MINS.
The scarcity of rainfall and water supply, the significance of being international crossroads, and the importance of rich oil deposits are three key ideas developed in relation to the countries of the Middle East.

SS-433 NAPOLEONIC ERA, THE (Colour) 14 MINS.
A retired army officer who served with Napoleon recalls the momentous Napoleonic Era of 1796–1815 and its effects upon France and Europe. There are scenes typifying Napoleon's rise to power, his governmental reforms in France, his conquests and, finally, the disintegration of the Grand Empire in a rising wave of European nationalism.

SS-282 OUR INHERITANCE FROM HISTORIC GREECE (Colour) 11 MINS.
This film will give students a keener appreciation of the contributions of ancient Greece to our modern society. The cultural inheritances in language, thought, architecture, sculpture, drama, and mathematics are linked directly from their context in our present-day life to their origin in ancient Greece.

SS-283 OUR INHERITANCE FROM THE PAST (Colour) 11 MINS.
The contributions of the past to our modern life are presented, resulting in a better understanding and appreciation of historic advances. By studying earlier civilizations and their accomplishments, the fact that our modern world is actually a product of the past is made dramatically clear.

SS-190 PACIFIC OCEAN (Colour) 22 MINS.
Using a series of animated coloured maps this film develops the extensive story of exploration, colonization, trade, empire building, and international rivalry in the Pacific Ocean, from early times to the end of World War II.

SS-560 PAPINEAU: THE DEMI-GOD 28 MINS.
This is a stirring picture of early Quebec during the time when Louis-Joseph Papineau represented the voice of the people in the struggle for responsible government. The incident recreated con-

cerns Papineau's refusal to take his seat as Speaker of the Assembly, Papineau's political associates, and his adversaries appear in their respective roles in the controversy.

SS-406 PILGRIMS, THE 22 MINS.
Authentic sets and period costumes are combined to bring alive the Pilgrims and their adventures: their religious persecution in England, their poverty in Holland, the terrible North Atlantic crossing, the signing of the Mayflower Compact, the heroic efforts to survive the bitter New England winter, and the historic first Thanksgiving.

SS-284 POMPEII AND VESUVIUS (Colour) 11 MINS.
An actual eruption of Mount Vesuvius and the ruins of the city of Pompeii are portrayed. Activities of present-day Naples and a colourful folk dance in Sorrento provide authentic glimpses of the life that carries on within the very shadow of the still active and ominous mountain.

SS-318 PREHISTORIC MAN, THE STORY OF 11 MINS.
Offers a visual description of the life, appearance, habitat, and achievements of prehistoric man as reconstructed from authentic evidence: prehistoric tools and weapons, cave paintings and stone carvings, and skeletal remains. The periods of the Old and New Stone Ages are indicated and the geographical areas in which prehistoric man lived are mapped.

SS-565 PREHISTORIC MAN IN NORTHERN EUROPE 14 MINS.
This film traces the significant developments of man's way of life from the beginning of the New Stone Age through the Ages of Bronze and Iron, to the end of the prehistoric ages, marked by the introduction of a written language. With re-enactments of living conditions in regions of Northern Europe which have produced many of the artifacts we now have, the film gives insight into the early life of man.

SS-604 QUEST FOR FREEDOM (Colour) 16 MINS.
The film translates abstract concepts into vivid, tangible, concrete visual terms. The barriers to freedom presented by natural environment are differentiated from man-made barriers. The essential guarantees of personal and political freedom are explained. The film illuminates two central ideas: (1) freedom and learning are inseparable; (2) freedom is a universal goal, sought by many peoples in the past and yet to be achieved by many in the future.

SS-381 REFORMATION, THE (Colour) 14 MINS.
Such factors as the role of the Church in European life, the cultural rebirth brought about by the Renaissance, the emergence of national

states, and new interpretations of the Scriptures are discussed. Particular attention is given to Luther and the Protestant Reformation in Germany, although Calvin, Zwingli, and Knox are recognized.

SS-243 RENAISSANCE, THE (Colour) 11 MINS.
The Renaissance represented a change in the mental attitude and spirit of the individual, demonstrated in the fields of science, literature, and the arts, and indicating the driving spirit of human endeavour.

SS-407 RENAISSANCE, THE (Colour) 26 MINS.
The film traces the causes of the Renaissance. It interprets objectively the meaning and significance of the Renaissance, and illustrates the attitudes and movements of the times. It is recommended as highly useful for students of world history.

SS-605 RISE OF NATIONALISM IN SOUTHEAST ASIA 16 MINS.
The new nations of Southeast Asia are of critical importance in world history. This film surveys the general conditions which gave rise to nationalism in this area, and examines the problems confronting each of these nations on their road to maturity.

SS-382 RISE OF THE NATIONS IN EUROPE (Colour) 16 MINS.
The pattern of national evolution is observed in France as representative of those European states which developed from feudal beginnings to highly centralized states of the seventeenth century.

SS-499 RISE OF THE ROMAN EMPIRE (Colour) 14 MINS.
The film traces the development of Rome from a group of early tribal communities to a mighty empire which embraced a large part of the Western world. It emphasizes those factors which made such a rise possible — Rome's concept of democracy and citizenship, its legal and administrative system, and its military strength. Authentic settings and realistic re-enactments were photographed in Rome, Ostia, and in other locations which were part of this great empire.

SS-319 ROAD TO CANTERBURY (Colour) 30 MINS.
The film shows Watling Street (the road to Canterbury), beginning in the City, and passing through Southwark, Greenwich, Blackheath, Rochester, Chatham, and the hopfields of Kent. In its passing, the film depicts the various historical and present-day associations with these places. Final views show the cricket week, streets leading to the Cathedral, St. Augustine's Abbey, and the Cathedral itself.

SS-224 ROMAN EPISODE, A 11 MINS.
At St. Albans in England excavations reveal the site of the city of Verulamium, built during the Roman occupation. Diagrams indicate

the probable architecture of the buildings and live photography shows tools, ornaments, and pottery. A Roman gathering is dramatized, portraying officials, soldiers, and civilians.

SS-287 ROMAN WALL, THE 22 MINS.
Introductory maps of the Roman Empire are followed by a detailed study of the Wall; its features and their functions are illustrated by diagrams, models and photographs of the Wall as it is today. Players in period costume suggest the contrast between the Roman way of life and that of the Britons of the same era. The construction and purpose of the Wall are studied, with some attention given to the difficulties of holding England for the Roman Empire, with the subsequent influence on British history.

SS-630 ROMAN WORLD (Colour) 22 MINS.
The aim of this film is to give a general picture of life in theRoman Empire when it was at the height of its glory. A tour of the Roman cities to view the magnificent ruins of buildings, aqueducts and military installations provides ample evidence of the contribution made by the Romans in uniting the whole Mediterranean area and bringing civilization to Western Europe.

SS-225 ROME, ANCIENT (Colour) 11 MINS.
The achievements of ancient Rome in government, in architecture, and in engineering are presented here. Our specific inheritances from that culture are thereby established.

SS-244 ROME, CITY ETERNAL (Colour) 11 MINS.
Portrays in colour the dramatic glories of Rome: the Colosseum; St. Peter's Square; the art treasures of the Basilica of St. Peter; the lavish fountains of the Villa d'Este and the Piazza Navona; the ruins of the Forum and of Hadrian's villa; and lastly, the pageantry of the city seen by the light of a traditional fireworks display.

SS-567 ROOM OF DESTINY 20 MINS.
Charlottetown was the setting for the first of the Conferences of delegates from the separate colonies of British America, leading to Confederation in 1867. Many problems had to be solved before union could be completed. A re-enactment by characters in period costumes, in the room where the Meeting was held, should help bring Canadian history alive for students.

SS-408 SIR FRANCIS DRAKE 30 MINS.
The rise of English sea power is portrayed in this dramatic film. The setting for Drake's famous voyage, his navigation of the Straits of Magellan, his battles with Spanish galleons, and his return to England are pictured in exciting sequences.

SS-325 SPANISH CONQUEST OF THE NEW WORLD 11 MINS.

The names of Cortez, Pizarro, Balboa, De Soto and other men who won for Spain one of the greatest empires in the world, take on a new meaning as we see the new lands conquered, cities built, Indian civilizations overthrown and replaced with the culture of Spain.

SS-437 STEAM AGE (Colour) 16 MINS.

The swift development of transportation in the United States from the time of the Indians to the coming of the automobile is described. Utilizing historical re-enactments and unusual prints of the period, the film brings to life man's struggle to conquer the vast distances on the North American continent.

SS-347 STONEHENGE 16 MINS.

This film deals with the significance of the location of Stonehenge, and by photographs and reconstruction shows how archaeological research has in some measure solved the problem of its age, its construction and its possible use. Animated diagrams indicate how, so far as it is at present known, the stones were brought to the site and erected.

SS-502 TALBOT SETTLEMENT (Colour) 16 MINS.

This film re-enacts the role of Col. Talbot in establishing his settlement along the shores of Lake Erie. Sequences depict his care in the selection of settlers, clearing of the land, the effect of the War of 1812, and the stress on road building.

SS-611 TUPPER, CHARLES 29 MINS.

As premier of Nova Scotia, Charles Tupper participated in the struggle for Confederation. Joseph Howe, his most eloquent opponent, is also portrayed.

SS-129 TWO THOUSAND YEARS AGO—THE DAY'S WORK 20 MINS.

The carpenter and his son are shown proceeding to their village shop. They begin making yokes for oxen, doors for houses, etc. A potter is seen at work moulding the clay and firing the pot. We watch men building a native house and see people proceeding home for their evening meal. Hands are washed and the meal eaten, first by the men and then by the women and children. Afterwards the father reads to the family from the sacred rolls of the Torah.

SS-130 TWO THOUSAND YEARS AGO—THE HOME 20 MINS.

By means of maps the comparative size of Palestine and its place in the Roman Empire are shown. Inside the house there are the animals, with mangers against the upper platform, which forms the living part. The family awaken, fold their mattresses and put on clothes. They breakfast on loaves and dried fruit, untether the animals and set out for work. The mother remains in the house with her baby, which is swaddled and placed in a manger for safety.

SS-131 TWO THOUSAND YEARS AGO— THE SCHOOL 20 MINS.

Boys arrive at the Synagogue where the Khazzan awaits them. Interior is shown and boys take off their shoes and enter. The Shema is recited, verses learned by heart from the Torah and reading taught from cards. In another part of the Synagogue books are written. In the courtyard classes are conducted for more advanced pupils. A teaching booth in the courtyard of the Temple is shown. At home the mother teaches the daughter, and in the evening the father reads to the family once more.

SS-132 TWO THOUSAND YEARS AGO— THE SYNAGOGUE 20 MINS.

On the Sabbath morning men, carrying praying shawls, go with the women to the Synagogue. Men and women sit separately, whilst the elders, the ruler of the Synagogue and the Rabbi sit before the Ark facing the congregation. Prayers open the service and the Khazzan calls on someone to read the lesson and give a sermon, which is followed by discussion. The service is closed by the singing of psalms. Travellers go up to Jerusalem for the Passover, and find no room for them at the inn. The Passover meal is served in a rich man's house. The threefold ceremony of partaking of the cup is observed, interspersed with grace and the singing of the prescribed psalms.

SS-133 TWO THOUSAND YEARS AGO— THE TRAVELLERS 20 MINS.

Travellers arrive at an inn and partake of food they have brought with them, or on locusts and honey which they order from the innkeeper. A merchant bargains for silk. The values of currencies of the time are indicated. The travellers leave the inn, and pass a beggar by the roadside and children playing their games.

A rich merchant reaches a friend's house and receives the usual courtesies and greetings. It is the eve of the Sabbath. The Khazzan sounds the Shophar from the Synagogue. The Sabbath lamp is lit, the hands are washed and the first meal of the day of rest is eaten.

SS-635 UNIFICATION OF ITALY (Colour) 14 MINS.

From the invasion of Italy by Napoleon in 1805 to the plebiscite of Rome in 1870, this film traces the long struggle to create a unified Italy. Costumed re-enactments portrayed against historic locales in Italy clarify the important events of those years and the roles played by Mazzini, King Victor Emmanuel, Count Cavour and Garibaldi.

SS-576 UNITED EMPIRE LOYALISTS (Colour) 15 MINS.

This film depicts the story of the United Empire Loyalists. It outlines the reasons for their coming to Canada; methods of transportation used; hardships suffered; help given to them by the British government; and their influence on Canadian history. Excellent map sequences show the routes followed and the early settlements established.

SS-577 UNITED NATIONS: THE CHARTER 15 MINS.

The origins and development of the basic written authority on which the United Nations functions are shown as they culminate in "The Charter". The film illustrates diagrammatically the international machinery created for the operation of a world peace organization, setting out the functions of each of the separate organs which constitute the United Nations.

SS-578 UNITED NATIONS: THE GENERAL ASSEMBLY 14 MINS.

This film describes the constitution and membership of the Assembly, how votes are taken, and how its business is conducted. A visit to a session of the Assembly shows how the day-to-day work is carried on.

SS-579 UNITED NATIONS: THE TRUSTEESHIP COUNCIL AND SYSTEM 16 MINS.

The stewardship system whereby non-self-governing territories in various parts of the world are administered by the Trusteeship Council of the United Nations until such times as they are able to govern themselves, is illustrated. The Council also helps colonial territories toward economic and political independence.

SS-227 UNQUIET LAND 30 MINS.

This film, dealing with the Civil War in England, is principally diagrammatic. It shows how the country was divided at the beginning of the war. It pictures the types of soldiers who fought, the weapons used, and the pike and musket drill of the day. By maps and animation, the strategy of both King and parliament and the movement of their armies are indicated. The battles of Edgehill and Marston Moor are shown in detail. The film includes "live" pictures of the battlefields and well-known buildings that featured in the war.

SS-509 VIKINGS AND THEIR EXPLORATIONS, THE (Colour) 11 MINS.

Sailing from what is now Scandinavia, the bold and resourceful Viking warriors of the ninth and tenth centuries influenced the history of many modern-day nations. Through costumed dramatizations and authentic Viking artifacts, aspects of Norse culture are traced.

Home life, manners and dress, and various explorations are recreated, culminating in Leif Ericson's discovery of the North American continent nearly five hundred years before the voyage of Columbus.

SS-528 WAR OF 1812-1814 (Colour) 15 MINS.
The causes of the War are illustrated, and important events are highlighted with some emphasis on the roles of Brock and Tecumseh. The film concludes with the signing of the Peace Treaty and a summary of the results of the War.

SS-511 WESTWARD GROWTH OF OUR NATION (1803-1853) (Colour) 11 MINS.
In the half century from 1803 to 1853, the United States extended its territory from the Mississippi to the Pacific. This is the exciting story of that expansion — of the struggles and conflicts, of the treaties signed, and of the brave pioneers who explored and settled the West. The film also shows how the various regions — the Louisiana Territory, Texas and the great Southwest, and the Oregon country — became a part of this nation.

SS-515 WILLIAM PENN AND THE QUAKERS (Colour) 11 MINS.
The Quakers' struggle for freedom of worship in 17th century England sets the background for this story of the establishment of Pennsylvania. We see how, under William Penn's leadership, a colony was founded which was dedicated to freedom of speech and religion, and equality for all. Ample opportunity for trade, industry, and agriculture helped Pennsylvania develop into a political, economic, and cultural leader among the colonies.

SS-203 WINSTON CHURCHILL 11 MINS.
A well co-ordinated sequence of news films provides a forceful review of Churchill's share in major events during the Second World War. Excerpts from the famous speeches of this great statesman create a realistic atmosphere.

SS-439 WOLFE AND MONTCALM 30 MINS.
Re-enacted are the preparations for the Battle of the Plains of Abraham where Quebec City fell to the British — the climax of the French and Indian War. Shown are the strategy of the attack and the dramatic moments when Wolfe and Montcalm, the British and French generals, are fatally wounded.

SS-516 WOODLAND INDIANS OF EARLY AMERICA (Colour) 11 MINS.
Authentic reconstructions and scenes in the eastern and Great Lakes regions provide settings for this study of woodland Indian life prior to European influence. The daily life of a Chippewa family is ob-

served as Little Bear and other members of the family hunt wild turkey, harvest their staple food of wild rice, fish in the lake, and gather at the wigwam for the evening meal.

SS-349 WORKSHOP FOR PEACE 30 MINS.
This film presents the United Nations as it might be seen by someone being taken on a conducted tour of the U.N. headquarters, New York. It presents a view of the interiors and exteriors of the buildings. The picture admits us to meetings of the General Assembly, a Trusteeship Council, sessions of the Economic and Social Council and the Security Council.

Industry

SS-176 BRICKS FOR HOUSES, MAKING 11 MINS.
A photographic study of the complete manufacture of bricks. The various uses of bricks are also illustrated.

SS-392 CHEESE AND CHEESE MAKING (Colour) 11 MINS.
Modern processes for making cheddar, Italian, and Swiss cheese are shown. Cheesemaking is an age-old method of preserving milk food in cheese form. Animation and direct photography show the cheesemaking process: coagulation, separation of whey from curd, forming, curing, and aging for three basic kinds of cheese.

SS-45 COAL, THE STORY OF 11 MINS.
The geological formation of coal and modern methods of coal mining are shown in this film. Regions where it is found and uses in the business world are included in the concluding sequences.

SS-471 GOLD AND GOLD MINING 15 MINS.
This is a study of modern gold mining methods. Some similarities between present day and pioneer operations are outlined. All the various methods are treated, and the use of similar principles to separate the gold from its bed of sand, soil, or rock is depicted.

SS-632 GREAT TOMATO HARVEST, THE (Colour) 23 MINS.
From early spring through late fall, this film records the development and processing of the tomato crop from seed to final product. It tells the fascinating story of the growth of the tomato to maturity and its step-by-step journey through the processing plant to emerge into a wide variety of tomato products.

SS-518 HARVEST OF ENERGY (Colour) 18 MINS.
A complete story of the production of chocolate in a modern factory. Sequences show the preparation of milk, sugar harvesting in the West Indies, and cocoa bean production in Jamaica. The factory process of manufacturing chocolate bars is depicted.

SS-371 LOBSTERS ARE A COMMUNITY AFFAIR 22 MINS.

This film shows how fisheries scientists are working with the lobster fishermen of the Maritime Provinces to establish conservation practices which will ensure a continuing supply of lobsters from year to year. We see tests used to prove that lobsters do not migrate from one area to another; the importance, therefore, of letting them grow to maturity before marketing becomes of vital concern to the people of the coastal hamlets.

SS-128 LUMBERING, TROPICAL 11 MINS.

Mahogany lumbering is described in this film. The mapping of the area, felling, and log cutting are shown in detail, followed by the transportation of the timber by tractor and river to the Belize sawmills.

SS-529 MAGIC MINERAL, THE (Asbestos) 20 MINS.

Asbestos, an oddity among minerals, is aptly called "the silk of the mineral world". Canada is a major source of the world's supply and, in the Province of Quebec where the largest deposits are located, thriving communities have grown up around the extraction and processing of asbestos. In this film you see a typical asbestos town, Thetford Mines, Quebec, and all the stages the fibrous rock goes through from mine to mill.

SS-624 MAKING BUTTER IN OLDEN TIMES (Colour) 8 MINS.

This film portrays the steps in butter production, as practised by pioneer families. We see the process of skimming cream, the use of a stone churn and working butter by hand.

SS-487 NATURAL GAS GOES EAST (Colour) 30 MINS.

This film covers the construction problems faced in the building of the natural gas pipe line from Alberta to Toronto and Montreal. At a cost of over one billion dollars, with employment for five thousand men, this engineering feat is recorded as one of Canada's greatest achievements.

SS-323 SALT FROM THE EARTH 11 MINS.

After showing how the salt from earth, sea, and streams crystallizes, the camera tours Canada's great salt mine at Malagash, N.S. Striking scenes show the truth of the statement that there is enough salt here to supply the world for five hundred years. A survey of the many uses to which Canada puts this native product concludes the film.

SS-113 SHELL FISHING 11 MINS.

Views of the oyster, crab, clam, and lobster fishing industries on the eastern coast of United States. Sequences show the planting, dredging, and marketing of the products of this region.

SS-115 SPONGES 11 MINS.

A study of the sponge industry in the Bahamas, including the planting of new beds, the work of the sponge-gathering fleet, and the grading for market purposes. This film shows adequately the processes by which the sponge industry is carried on.

SS-326 SUGAR, STORY OF 11 MINS.

The scene takes place on a large sugar cane plantation in the United States. Shown in logical sequences are the various processes of plowing, planting, cultivating, fertilizing, harvesting, refining, and preparing for market.

SS-522 TEA (Colour) 15 MINS.

The story of the use of tea through the ages serves as an introduction to this film. We then see how tea is grown and processed for packing, with the final sequence illustrating how it is used today.

SS-200 TEA FROM NYASALAND 11 MINS.

A map indicates the chief tea-producing areas of the world. The operation of an African tea plantation is shown. Steps from planting to processing and shipping are dealt with briefly and in logical order. The film depicts methods of testing and blending in an English factory.

SS-201 TOBACCO SUPPLY OF THE WORLD 11 MINS.

On a map of the world the principal tobacco-producing areas are indicated. The film then shows the operation of a tobacco plantation in Southern Rhodesia. Pictures of the plantation layout are followed by scenes of planting and transplanting, cultivating, harvesting, curing, grading, baling, and shipping. The film points out the influence of climate, soil, and native labour.

SS-328 UNDERGROUND EAST (Colour) 22 MINS.

This film tells the story of how half a continent was spanned in one hundred and fifty days by the pipe line which carries crude oil from Edmonton to Sarnia. It is a fascinating story of one of Canada's greatest engineering achievements.

SS-512 WHALES AND WHALERMEN (Colour) 20 MINS.

Shows activities aboard ship during a whale hunt, including preparation of harpoons and powder charges. Pictures the harpooning of three whales (toothed and baleen among them). Concludes by showing dissection of the whale carcasses and enumerating products derived from the whale. Ship departs from South African port; action occurs in Indian Ocean.

Map Reading

SS-303 BY MAP AND COMPASS (Colour) 30 MINS.

A boy and his father learn to explore the country around their summer camp by using a map and compass. The father explains the contour lines of a mountain shown on their map by dipping a rock in water and marking the water line in chalk. The various parts of the pocket and protractor types of compass are explained in detail.

SS-423 CLIMATE AND THE WORLD WE LIVE IN (Colour) 14 MINS.

The film shows the determining factors of climate — latitude, altitude, nearness to water, ocean currents, prevailing winds, and mountain ranges. Further explained is the grouping of similar climate into major types, and regions of the world are represented to show how variations in climate affect human activities.

SS-365 GEOGRAPHY IN YOUR COMMUNITY (Colour) 11 MINS.

A boy is shown discovering many things about his community — the relationship between its industries and geography, its farmlands, and residential areas, and its rivers and highways. The film is intended to encourage children to collect and organize data about their own community.

SS-169 GLOBAL CONCEPT IN MAPS (Colour) 11 MINS.

This film treats the three main concepts: the globe, projection, and distortion. Dan, whose interest in maps is aroused by a radio broadcast, masters the global concept and demonstrates great circle routes on a polar projection. He explains and summarizes distortion and the three types of projection: cylindrical, conic, and perspective.

SS-277 MAPS AND THEIR MEANING (Colour) 14 MINS.

Maps are explained as symbols of geographical information. The colour zones on physical maps are illustrated by the types of land found in each zone. Animated maps, diagrams, and colour photography point out various economic aspects of altitude, latitude, and rainfall, especially the ways in which they affect the use of land.

SS-179 MAPS ARE FUN (Colour) 11 MINS.

Two boys have a problem laying out a paper route. A teacher assists them, and they develop a sketched map from a simple sand table model. With the teacher's guidance and reference to classroom maps they see the necessity for scales, symbols, legends and colours. This film is used in both intermediate and senior grades of the elementary school.

SS-625 MAPS FOR A CHANGING WORLD 11 MINS.
This film traces the evolution of world map concepts from ancient times to the Jet Age and emphasizes the influence of air transportation on our present-day concepts of map making.

SS-380 READING MAPS (Colour) 11 MINS.
A young boy learns about the use of maps in following roads and locating various places. He is shown how to read the map by noticing the title, scale, direction symbols, and legends.

SS-140 WHAT IS A MAP? 11 MINS.
A visual lesson in basic map reading. Because map symbols are abstract, the camera is employed to give a concrete expression to their meaning. Students actually see a room from above, and watch each piece of furniture fade and then be replaced by its outline, so that a map of the room is provided. The same procedure is applied to a small town with school, neighbourhood, park, homes and stores.

Shelter

SS-384 SHELTER 11 MINS.
Some of the different kinds of houses people build to meet the conditions of their climates are illustrated, including: igloo, tents of the desert and reed house of Fiji Islanders. A comparison is made between the pioneer cabin and today's home, with some illustrations of methods of construction.

SS-612 WORLD FULL OF HOMES, A (Colour) 12 MINS.
By depicting various shelters, such as primitive caves and tree houses, early stilt houses, Indian tents, Tibetan yurts, Chinese houseboats and Eskimo igloos, the film emphasizes the thread of human needs which unite all men, past and present. By illustrating the influence of the past on modern American homes, the film helps develop the related concepts of tradition and change.

Transportation and Communication

SS-229 ADVENTURE IN TELEZONIA (Colour) 22 MINS.
Live photography and clever puppetry combine to tell the story of Bob's visit to the odd land of Telezonia where friendly marionettes explain and demonstrate the proper way to use the telephone.

SS-1 AEROPLANE TRIP, AN 11 MINS.
This film shows the experiences of Dorothy and her mother during an aeroplane trip from Los Angeles to Salt Lake City. Preparations for the trip, scenes from the plane, and the safe landing are well described.

SS-151 AIRPORT, THE 11 MINS.

This film illustrates the normal activity at a large airport. It demonstrates the teamwork of ground and air personnel when an airliner is approaching and landing. The second sequence deals with the tasks of those in the terminal building who must attend to the details of passenger reservations, mail and baggage, loading, and provision of weather information before an outgoing plane takes off. Narration is simple and clear.

SS-531 AIRPORT IN THE JET AGE (Colour) 11 MINS.

A boy has an adventure through the reading of a book, one that takes him in a helicopter to the airport. There he checks in, boards his jet airliner and takes off. No trouble at all, it seems. But then the film takes us back to watch the scores of people who work together to make this take-off possible.

SS-352 BIG HIGHWAY, THE 11 MINS.

When Sammy rides along the highway in his father's truck, he sees many kinds of cars and trucks, as well as a railroad and airfield. He learns why highways are important and that provisions are made for safety on the highway.

SS-22 BOATS 11 MINS.

A record of a trip taken by a boy and a girl on a pleasure boat down the Hudson River. They see all the scenery along the river, including freighters, ferries, bridges, and New York city. It concludes with views of a large ocean liner being pushed out into the river by tugs and starting across the Atlantic.

SS-25 BUS DRIVER, THE 11 MINS.

A small boy makes an eventful cross-country bus trip. The duties of the driver are depicted in scenes showing how he meets driving hazards, serves his passengers and keeps his bus in operating condition. The activities of a bus terminal and service garage are pictured, along with typical experiences of a four-hundred-mile bus journey.

SS-448 BUSY HARBOUR, THE (Colour) 11 MINS.

Of all the interesting places to visit, a big busy harbour is probably one of the most fascinating. We go along with Ted and Maria as they visit their friend Captain McKay, a tugboat captain. He explains and shows them some of the many activities going on in the harbour; fishing boats unloading, tugboats pulling barges, cargo ships, a lighthouse, buoys. A ride on the Captain's tugboat climaxes the visit.

SS-361 COMMUNICATION, DEVELOPMENT OF 11 MINS.

The development of modern methods of communication is traced, including television, teletype, wirephoto, and the germanium transistor. Some of the inventors mentioned are Volta, Watson, Henry, Morse, Bell, Marconi and De Forest.

SS-454 COMMUNICATION: STORY OF ITS DEVELOPMENT (Colour) 11 MINS.

This film presents milestones in the history of the transmission of spoken and written language. The progress which enables us to send messages over greater distances at increased speeds is emphasized. Live action scenes and views of many original inventions, such as the electric telegraph and the first wireless radio broadcast, are presented.

SS-455 COMMUNICATION IN THE MODERN WORLD 11 MINS.

Within a framework of historical development, the film vividly portrays the importance of communication in the local, national and international community today. Examining the various means of communication such as books, newspapers, radio, telephone, recordings, television, motion pictures, etc., we learn of their significant role in our society and of recent technological improvements.

SS-164 FREIGHTER IN PORT 22 MINS.

The various parts of the ship and their uses are shown and defined. The ship's crew is shown at work, a lifeboat drill is demonstrated, and the work of the longshoreman is portrayed. The film points out the ocean freighter's importance as a link in international trade.

SS-165 FREIGHTER AT SEA 22 MINS.

This film, a sequel to SS-164, shows the activity of the crew, duties of officers, and life aboard an ocean freighter. Sequences reveal food preparation, safety devices such as direction finders and radar, map and chart room, activity on the bridge, and the constant co-ordination and vigilance which identify the operation of this sea-going community. The story is told about the experiences of a young boy, Ralph. Narration is simple and forceful.

SS-285 PRINTING THROUGH THE AGES 22 MINS.

Traces the story of printing from ancient techniques using carved wood blocks to present-day presses. Depicts gradual transition from printing pictures to printing letters, as well as the evolution of modern type faces and improvements in the paper on which to print.

SS-606 SEAPORT (Colour) 16 MINS.

In this film we see the procedure by which a large modern seaport receives cargo for distribution to inland areas. Conveyor systems, pumps, and electromagnets used in handling goods are demonstrated: seamen, longshoremen, customs officers, and truck drivers are seen at work.

SS-633 STORY OF THE LETTER POST (Colour) 18 MINS.

The development of the English Postal Service is traced from its early beginning in the 15th century up to the present time. While it deals primarily with the English system, it indicates adoption of international regulations.

SS-124 TRAIN, THE FREIGHT 11 MINS.

Trucks begin the carrying of freight and deliver their cargo to the freight house. The shipment is then followed through the terminal into a car which is sealed and delivered to the freight yard. The car is switched and made up into a train. After final inspection the freight train begins its journey.

SS-125 TRAIN, THE PASSENGER 11 MINS.

This film pictures a journey on a modern, streamlined, Diesel electric train from a large city through a picturesque countryside. Shows clearly the duties of the ticket seller, gateman, baggage man, conductor, engineer, mail clerk, dining car cook, waiter and pullman porter. Attention is given to factors of comfort, safety, and efficiency in the train's operation.

SS-126 TRANSPORTATION, DEVELOPMENT OF 11 MINS.

This film shows transportation developments in the United States during the past one hundred and fifty years. The physical barriers, the spread of the railroad network, and the subsequent highway development are shown. Principal stages in the development of the locomotive and automobile are portrayed. Modern transportation devices including the aeroplane are shown in relation to their potentialities and our dependence upon them.

SS-246 WRITING, HISTORY OF 26 MINS.

The first sequence describes how writing started with simple pictures and developed into recognized signs. In the second sequence we see how these signs gradually changed shape and form. The third sequence explains how these signs were at last made to indicate single sounds. The final sequence shows that the Romans developed the letters of the original Greek alphabet, and depicts the impact of the discovery of printing.

Social Studies: Primary

SS-613 AIRPORT HELPERS (Colour) 11 MINS.

David, age 9, explores a busy airport and becomes acquainted with the various types of work required to keep an aircraft in operation. Some of the people he talks to are: meteorologists, ticket agents, mechanics, maintenance personnel, etc. The film is designed to stress the contribution, as well as the responsibilities, of each group of workers in the community.

SS-153 AUTUMN ON THE FARM (Colour) 11 MINS.
This film begins with the gathering of apples and grapes on a typical farm. Other sequences show the filling of a silo, corn husking, pumpkin harvesting, and the gathering of hickory nuts. Wild animals are shown preparing for winter.

SS-391 CARNIVAL COMES TO TOWN, THE (Colour) 11 MINS.
Sally, Bob, and Peter watch excitedly as first one, then another of the carnival rides is put together and set into position. But when all is in readiness, the carnival remains dark because of the missing truck which contains the electrical equipment. The arrival of the truck heralds the opening of the carnival and completes a story which teachers may use as a basis for reading, storytelling, and arts and crafts activities.

SS-159 CIRCUS ANIMALS (Colour) 11 MINS.
This film starts with the arrival of the circus train. The elephants, ponies, and show horses are unloaded. The elephants help with the unloading and one, Jumbo, shows real intelligence in unrolling the big tent. The animals are fed, watered, cleaned, rehearsed, and dressed in readiness for the performance. The close-up views of the train, circus environs, and animals are particularly vivid.

SS-535 CHILDREN IN AUTUMN (Colour) 11 MINS.
Jerry is working on a collection of signs of autumn with the help of his sister. They observe the gradual change from the luxuriant green of the summer to the brown and red colour of autumn. They also observe changes in the animal world. The days grow shorter and the weather becomes cooler — all of which influence life around them.

SS-419 CHILDREN IN SPRING (Colour) 11 MINS.
Two children observe the signs of spring through a series of personal experiences. On a picnic in the woods, they enjoy the blossoming trees and wild flowers; find tadpoles in a stream and baby birds in a robin's nest. Later, with their mother's help, they start a vegetable garden from seeds and young plants, and set out a row of flowers.

SS-420 CHILDREN IN SUMMER (Colour) 11 MINS.
We visit a farm with two children and investigate nature in the barnyard, in the fields, and in the pasture. The children work in the garden and enjoy a dinner outdoors with vegetables from their garden.

SS-421 CHILDREN IN WINTER (Colour) 11 MINS.
The winter season is a most enjoyable time for children. They play in the snow, investigate nature in their back yard and around the house, check temperature, and observe the waning of the day with the accompanying play of shadows. When it is not possible to be outside, the children play indoors at various activities.

SS-257 COMMUNITY, OUR 11 MINS.

Life of the residents in a rural community is well reviewed. The daily activities of the people as they go about their work are shown in some detail.

SS-263 FARMYARD BABIES 11 MINS.

As we follow Daisy, the farm dog, on her morning rounds, we see a variety of babies of the farmyard — lambs, calves, colts, chicks, and others. We learn the answers to questions such as: What do farmyard babies look like? What do they sound like? What do they eat? This film also induces youngsters to increase their reading and participation in language arts activities and group projects.

SS-265 GOLDEN RULE, THE 11 MINS.

The Golden Rule as a standard for behaviour accepted all over the world is visually interpreted so it will be clearly understood by young children. Everyday situations to which this rule applies are delightfully dramatized to encourage children to apply the Golden Rule to their own actions.

SS-549 LET'S BUILD A HOUSE (Colour) 11 MINS.

Faith, her father and Mark build a play house. We become aware of why they use concrete and brick for certain parts and wood for others; why they use glass for windows and iron to hold things together. The children help in the mixing, pounding, sawing and painting to the best of their seven-year-old ability.

SS-486 MOVING DAY—TIMMY'S NEW NEIGHBOURS (Colour) 11 MINS.

This film has been designed to help the child realize that moving is a necessary and not unusual family activity and that attitudes of co-operation, interest, and friendliness help to make the family and child welcome in the new surroundings. We follow Timmy's family through the moving day and to their new home, where they meet their new neighbours and friends.

SS-291 SEASONS OF THE YEAR (Colour) 11 MINS.

This film offers in simple terms the highlights of activities through Spring, Summer, Autumn, and Winter. There unfolds a full year of seasonal changes in human activities, changes in plant and animal life, and changes in the weather.

SS-519 SERVICE STATION (Colour) 11 MINS.

Explains the place which the service station occupies in modern community life. Shows a trip in a 1905 car when there were no service stations as we know them today.

SS-294 SKIPPER LEARNS A LESSON 11 MINS.

This is the story of Susan and her dog, Skipper, who move to a new neighbourhood. Susan adapts herself to her new playmates but Skipper snubs the dogs belonging to the children. After an embarrassing episode with a can of paint, Skipper learns that looks are unimportant. This film is intended to teach tolerance and promote better inter-racial understanding.

SS-116 SPRING ON THE FARM (Colour) 11 MINS.

All the birds, animals and plants of the farm come to life in beautiful natural colour. Sequences follow the interests of a typical farm boy and girl as they witness the wonders of life awakening to new activity in April and May.

SS-119 SUMMER ON THE FARM (Colour) 11 MINS.

A film depicting the activities of a farm boy and girl during the summer months. Sequences show the normal interests of farm life in the harvesting season. Some scenes depict the bird, animal, and plant life at this time of the year.

SS-327 TI-JEAN GOES LUMBERING (Colour) 16 MINS.

A French-Canadian folk tale relates the fantastic exploits of a mysterious little boy who rides into a winter logging camp and performs feats that dwarf those of the hardiest lumberjack. The film portrays typical life and work in a Canadian logging camp, with the colour photography providing a winter-wonderland background. While primarily a story for primary and junior grades, this film may also be used to teach about lumbering in social studies classes.

SS-505 TI-JEAN IN THE LAND OF IRON (Colour) 24 MINS.

In this film the hard, challenging iron ore country of Quebec-Labrador becomes a land of adventure for Ti-Jean — the mysterious little boy from French Canada about whom many stories are told. No challenge, no obstacle is too great for Ti-Jean. As in his other exploits, he proves himself equal to every situation. Working his boat passage, flying an aircraft, saving a mine from disaster — all are in the day's work for him before he again mounts his big white horse and rides off in search of new adventure.

SS-412 WATERWORKS, A VISIT TO THE 11 MINS.

An elementary school class is taken on a complete tour of the local waterworks. The youngsters see how water is pumped in, chemically treated, filtered, and tested before it is piped to the houses and buildings of the town. Attention is directed to several of the major water supply sources and various uses of the community water supply.

SS-204 WINTER ON THE FARM (Colour) 11 MINS.
Typical scenes on an average farm during the winter season are pictured. Two rural school children are seen observing wild animals in search of food. Other sequences show common rural activities of a seasonal nature.

The Wars

SS-631 SECOND WORLD WAR: PRELUDE TO CONFLICT 30 MINS.
The purpose of this film is to promote the understanding of the forces and developments that caused the outbreak of World War II. It traces the rise of Hitler and the rebuilding of the German empire by aggression, and demonstrates the futility of appeasement as an instrument of international futility.

SS-520 WORLD WAR I: THE BACKGROUND 11 MINS.
Historic newsreel footage illustrates this film review of the basic causes and international incidents which led to the war. Touching back to 1870, the film delineates the militaristic and nationalistic rivalry, entangling alliances, and international tension of the prewar years. Particular attention is given to the Balkan conflict, ententes and alliances, and the Sarajevo incident, leading to the declaration of war.

SS-517 WORLD WAR I: THE WAR YEARS 11 MINS.
Wide, strategic movements on land and sea gave the First World War a scope unknown in previous wars. It affected entire populations and utilized new, mechanized weapons. This film identifies the Allies and Central Powers and reviews their relative advantages in war potential. It discusses the German master strategy and its failure, the major campaigns of the middle war years (1915–1916), and the final phases of the war.

SS-521 WORLD WAR I: BUILDING THE PEACE 11 MINS.
Historic newsreel footage focuses on the Big Three — Wilson, Lloyd George, and Clemenceau — and scenes of the conference at Versailles. The film discusses the Treaty of Versailles: how it was written as a series of compromises, its provisions and effects on the map and peoples of Europe, the League of Nations as an integral part of the Treaty, and the failure of the Treaty to insure a lasting peace.

SS-414 WORLD WAR I 30 MINS.
Through documentary scenes of the period and the actual words of historical figures, this film brings to life the events which led the United States into war; describes the course of the war, and Wilson's role at the peace conference.

SS-415 WORLD WAR II (PROLOGUE, U.S.A.) 30 MINS.

Through documentary scenes of the period, this film reviews the historic events which led to U.S. entry into World War II. Describes the great dilemma which faced Americans and shows the different stages through which American public opinion passed as the events in Europe took place. Follows the development of world conflict, from Japan's invasion of Manchuria to the bombing of Pearl Harbor, and U.S. entry into the war on December 8, 1941.

Teacher Training

T-38 ADOLESCENTS, MEETING THE EMOTIONAL NEEDS OF 22 MINS.

This film shows how parents can help teenagers toward mature adulthood. A typical family, including a 17-year-old girl and a 14-year-old boy, shows how the various needs of adolescents can be met. These needs are analyzed as the physical needs, need for mental stimulation and growth, religious and spiritual needs, and the need for social development.

T-39 AGE OF TURMOIL 22 MINS.

Early adolescence is the subject of this film which reflects the emotional turmoil characteristic of the age group between thirteen and fifteen. Noisiness, destructive criticism, apathy, aggressiveness, unrealistic day-dreaming, and seemingly misspent energies are some of the problems parents must cope with. Many of the scenes are set in the home, showing parental reactions to typical behaviour situations.

T-75 AND THE WALLS CAME TUMBLING DOWN 29 MINS.

This film was produced for the Ontario Teachers' Federation to acquaint teachers with some of the characteristics of educational television in the context of education. It shows teachers participating in the production and evaluation of educational programmes.

T-48 ANGRY BOY 30 MINS.

Through psychiatric care, the emotional disturbance of a boy who is caught stealing in school, is traced to its basic causes. At the end of the film he is on the way to recovery and the audience has seen how unconscious motivation affects the behaviour of both children and adults.

T-19 ANSWERING THE CHILD'S WHY 22 MINS.

This film brings to light important aspects of the period when the child begins to ask questions. It dramatizes realistic situations in which youngsters meet with positive or negative attitudes toward their questions, and suggests the resulting effects upon their personalities. The film is a valuable guide to adults in helping children make a harmonious adjustment to the world about them. For Home and School audiences.

T-49 AUDIO-VISUAL MATERIALS IN TEACHING 22 MINS.
This film shows how audio-visual materials can challenge children's attention and interests in the classroom. Integration of audio-visual materials into a unit is demonstrated as we see actual class situations and activities, and an audio-visual centre.

T-60 AUDIO-VISUAL SUPERVISOR, THE (Colour) 19 MINS.
This film outlines the objectives and responsibilities of an audio-visual department. Familiarity with all audio-visual materials, their evaluation, utilization techniques, equipment operation, and correlation of materials with courses of study receive adequate coverage.

T-1 BABY'S DAY AT TWELVE WEEKS 11 MINS.
This film illustrates the general care of the twelve weeks' infant throughout the domestic day, together with an interpretation of the significance of his various reactions. The infant is followed through from waking to his final feeding at night. His dressing, bathing, feeding, daytime naps, play and general care are presented. Useful for child study.

T-2 BALLOONS 22 MINS.
Two boys, both between the ages of four and five, are subjects in a projective situation designed for the study of aggressive and destructive impulses. It shows how differently two children with similar backgrounds respond to a series of opportunities and invitations to break balloons. An excellent film for use by classes of psychology, teacher training, and child study.

T-3 BEHAVIOUR DAY AT FORTY-EIGHT WEEKS 11 MINS.
Wholesome methods of child care are portrayed in numerous situations, including the administration of cod liver oil and orange juice, bathing, dressing, feeding, playing, and sleeping. The psychological and educational importance of the infant's everyday experiences is emphasized.

T-31 BETTER READING 22 MINS.
The problems confronting the slow reader are clearly revealed, with suggestions of ways in which they can be met and solved. The story is portrayed of an intelligent high school boy whose work suffers from his slow reading habits. The methods used by a reading clinic in helping him to increase his reading speed and understanding and to enlarge his vocabulary are demonstrated.

T-4 BROADER CONCEPT OF METHOD—DEVELOPING PUPIL INTEREST 22 MINS.

This film presents a frank picture of the conventional teacher-dominated type of recitation, and shows typical effects of this method upon student attitudes, responses and learning. Alternative techniques to achieve broader educational objectives are then shown. A class project is planned and readily accepted by the pupils.

T-5 BROADER CONCEPT OF METHOD—PLANNING AND WORKING TOGETHER 22 MINS.

Development of the project and an appreciation of the values derived from the experience by the pupils themselves. Sequences show the organization into functional groups, investigation procedures, and recommendation in group report. The techniques described here can be applied to other types of class situations in which students share in the planning of their work.

T-58 BULLETIN BOARDS: AN EFFECTIVE TEACHING DEVICE (Colour) 11 MINS.

The film shows how to plan, gather materials, and arrange bulletin boards for various classroom uses; also how to use the bulletin board as a class project.

T-65 CHALK AND CHALKBOARDS 15 MINS.

This film shows the physical properties of chalk and chalkboards, how to care for them; demonstrates techniques of using chalkboards effectively in the classroom.

T-50 CHALKBOARD UTILIZATION 16 MINS.

A teacher can add interest to the teaching situation with variety, surprise, and good timing in chalkboard use. The film includes stick figures and various methods of transferring drawings to the chalkboard.

T-76 CHARTS FOR CREATIVE LEARNING (Colour) 10 MINS.

Charts should be bold, clear, and direct, providing quick clarification or emphasis when needed. Charts can be made from a variety of materials, can be hung or supported by a number of devices and can be designed with many kinds of inks, paints, crayons, lettering sets, and pictures. This film demonstrates methods of planning and making charts, then shows numerous situations in elementary and secondary classrooms where charts are being used.

T-20 CHILD CARE AND DEVELOPMENT 22 MINS.

Gives overall consideration of the habits of daily physical care that ensure a happy, healthy child. The film outlines correct attitudes and procedures toward establishing good habits of eating, sleeping, and bathing. It stresses the psychological influence that proper clothing exerts on personality development. A section is devoted to the importance of outdoor exercise. Throughout, the film stresses the importance of attitude of parents and children toward the establishment of good routines of daily living. For Home and School audiences.

T-21 CHILDREN'S EMOTIONS 22 MINS.

The major emotions of childhood are discussed: curiosity, fear, anger, jealousy, and joy. Childish fear and anger are natural but must not be allowed to become habits. Humour is the best antidote, combined with understanding. Jealousy is best dealt with through consistent discipline plus understanding and affection. Curiosity should be fostered as the basis of all the child's future education. Happiness is the result of physical well-being added to reasonable discipline and loving understanding. For Home and School audiences.

T-73 CHILDREN LEARN FROM FILMSTRIPS (Colour) 17 MINS.

This film realistically captures the spontaneous reactions of third grade students benefiting from a master teacher's effective use of a filmstrip in the classroom. Recorded classroom activity and narration are effectively combined to hold the viewer's attention.

T-40 CURRICULUM BASED ON CHILD DEVELOPMENT 11 MINS.

This film illustrates how the good teacher utilizes the behaviour characteristics of eight- and nine-year-olds in providing curriculum materials and in planning classroom activities. The film concludes by pointing out that learning activities should challenge the slowest to the brightest individual, and that developmental characteristics must be considered in all phases of the curriculum.

T-66 DIAGNOSIS AND PLANNING ADJUSTMENTS IN COUNSELLING 22 MINS.

The counsellor illustrates the methods used in diagnosis as a result of the tests. Interviews are shown between teacher–boy, counsellor–boy, and counsellor–parent–boy.

T-41 EACH CHILD IS DIFFERENT 16 MINS.

Five children, representing a cross-section of Miss Smith's fifth grade class, are presented to illustrate what the good teacher must come to know about each individual child if she is to adapt her teaching programme to his needs and abilities.

T-6 EARLY SOCIAL BEHAVIOUR 11 MINS.

Portrays manifestations of infant personality in a variety of social settings. Ten different children from eight weeks to seven years of age are depicted. Individual differences are emphasized. The social significance of the household is conveyed by scenes which reflect parent-child relationships and interaction between brothers, sisters and adults.

T-7 EDUCATION FOR THE DEAF 60 MINS.
A detailed presentation of the methods by which deaf children are taught to speak. Two-year-olds are accepted by the special schools and many stay until they are twenty. Their classroom progress is slower than that of other children, but when they leave school they are fully qualified to take their place in the world, for they are no longer handicapped by their deafness.

T-61 FACTS ABOUT FILM (Colour) 11 MINS.
An important film that should be in every library. Shows how to guard against most common damage to films. Explains why gates and sprockets must be kept clean and how to watch for damage to sprocket holes.

T-62 FACTS ABOUT PROJECTION (Colour) 11 MINS.
Covers all phases of skillful projection, including a check-list of hints and safeguards.

T-79 FAMILY, THE 22 MINS.
This film shows how the daily problems confronting a family are solved when each member understands the needs and desires of others, and the family faces its problems together.

T-51 FEARS OF CHILDREN 30 MINS.
A parent-child situation is presented in which the mother tends to coddle her five-year-old son while the father advocates sterner discipline and encourages the child to do things for himself. The resulting conflict confuses the boy, and magnifies his rudimentary fears. Through the advice of a friend the parents make a greater effort to understand the situation and a happy solution is indicated at the end of the film.

T-55 FELTBOARD IN TEACHING 11 MINS.
Suggests uses which the classroom teacher may make of the feltboard — also known as the visual board, feltogram, flannelgraph, etc.

T-77 FLANNELBOARDS AND HOW TO USE THEM (Colour) 15 MINS.
The first sequence shows how flannelboards provide a means for arrangement and rearrangement of illustrations, a logical sequence of presentation, the use of 3-D build-ups, the use of animation and action, and the advantage of quick, easy-to-make, economical visual aids. The second section shows what flannelboards are, pointing out several ways to make simple ones. The third sequence explains materials that will stick to flannelboards and offers ideas for devices

that can be made by teachers. In conclusion, the film demonstrates different uses of flannelboards in classroom situations ranging from kindergarten through college.

T-63 FLANNELGRAPH (Colour) 30 MINS.
Primarily designed for teacher training. This film explains and illustrates what a flannelboard is and how it can be used in the elementary classroom.

T-53 FROM SOCIABLE SIXES TO NOISY NINES 25 MINS.
Illustrating the behaviour that may normally be expected in children from six to nine, this film introduces a family with three children in this age group. The parents handle such characteristic problems as jealousy, occasional dishonesty, destructiveness and varying interests and abilities.

T-56 FROM TEN TO TWELVE (Colour) 30 MINS.
This film provides opportunity to study the emotional and physical development of children from ten to twelve years. Quite far removed from infancy, yet not across the threshold of adolescence, children of these ages present an absorbing study of adults in the making. We watch the children of one family in various situations in the home, at school and in group play, and find that much of their conflicting behaviour is actually a normal part of the growing process.

T-42 GOOD SPEECH FOR GARY 22 MINS.
This film presents Gary as a boy of elementary school age with a number of speech impediments, and describes a variety of techniques and experiences that contribute to his ultimate improvement. This film can be used to demonstrate a variety of materials and techniques in the training of speech teachers, to impress a community with the need for special speech training in a school programme, and to show parents the necessity for greater understanding and co-operation on their part.

T-59 GREGORY LEARNS TO READ (Colour) 30 MINS.
A well-trained teacher skillfully guides Gregory and his classmates through the complexities of learning to read. All of the word recognition techniques are introduced and developed for teachers and parents.

T-52 HABIT PATTERNS 22 MINS.
The behaviour of two teenage girls is used in this film to illustrate how habits are formed. The social and personal advantages resulting from the early formation of orderly and systematic daily habits is seen in contrasting the purposeful life of a girl who has formed them with the unhappy, inadequate existence of one who has not.

T-69 HICKORY STICK 28 MINS.

The maintenance of orderly atmosphere for learning in a fifth grade class is the subject of this film. The teacher is observed as she encourages and motivates members of her class while at the same time guiding and disciplining the children without a hickory stick but with firmness and authority.

T-17 HOW TO MAKE HANDMADE LANTERN SLIDES (Colour) 22 MINS.

The basic production techniques for eight types of handmade slides are featured in this film. Teachers demonstrate how to make the types of slides most appropriate for use at various grade levels. Many suggestions concerning sources of content materials and uses for the various slides are presented.

T-22 IMPORTANCE OF GOALS 22 MINS.

In following the case of a thirteen-year-old boy, the film explores the principle that all education is essentially a process of attaining basic, meaningful goals. It drives home the fact that something to work toward, something translated in terms of young minds and young desires, can spell the difference between eager, interested students and those for whom school is boring and dull.

T-23 INDIVIDUAL DIFFERENCES 22 MINS.

This film illustrates the case history of a youngster who, overshadowed by the reputation of an older, socially-adept brother, is unable to make his own place in his class. When his teacher studies his past record and plans to meet his interests, the boy achieves personal satisfaction and becomes a contributing member of the group.

T-67 INSURING OUR INVESTMENT IN YOUTH 16 MINS.

The film demonstrates the need for guidance services in our schools. It also shows the steps taken by a well-planned guidance system when a secondary school student is helped to solve his educational planning problems.

T-24 INTRODUCTION TO STUDENT TEACHING 22 MINS.

A student teacher describes his orientation to and experiences in his first teaching situation in a Junior High School. Valuable advice is presented and typical examples shown.

T-32 LEARNING THROUGH CO-OPERATIVE PLANNING 22 MINS.

The film shows how elementary school children learn to take effective parts in group activities. Stress is placed on the importance of co-operation.

T-8 LEARNING TO UNDERSTAND CHILDREN— A DIAGNOSTIC APPROACH 22 MINS.

This film presents a case study of Ada Adams, an emotionally and socially maladjusted girl of 15. It records the effort of her English teacher to study her case sympathetically, to understand her, and to plan remedial procedures to help her. Sequences reveal the observation of the child's behaviour, study of previous records, personal interviews, home visitations, and formulation of a hypothesis for remedial measures.

T-9 LEARNING TO UNDERSTAND CHILDREN— A REMEDIAL PROGRAMME 22 MINS.

A continuation of the case study of Ada Adams. Ada's interest in art is used as a means for improving her self-confidence and interest in her school work, as well as for recognition and acceptance by her schoolmates. Techniques illustrated are indicative of the type of remedial procedures which may be used in dealing with many types of maladjustments.

T-12 MAINTAINING CLASSROOM DISCIPLINE 16 MINS.

This film explores the fundamentals of proper control of class conduct and attitude. Contrasting methods of handling a class are demonstrated. The film shows that the impact of the teacher's personality upon the students has an important effect on the general progress and behaviour of the class. Basic principles of methods are demonstrated by this study of contrasting techniques.

T-47 MAKING FILMS THAT TEACH (Colour) 16 MINS.

This is an outline of how teaching films are written, photographed and produced. This unique and stimulating motion picture shows the research behind a teaching film, the role of the collaborator, and preparation of the script. It illustrates different types of production such as historical, dialogue, location, and various special techniques such as time lapse photography, animation, and x-ray photography.

T-70 MATHEMATICS AT YOUR FINGERTIPS (Colour) 28 MINS.

The Cuisenaire Method of teaching mathematics in primary grades is presented. Dr. Caleb Gattengo demonstrates, with the aid of coloured sticks, that a grade one child can quickly grasp ideas of greater than, less than, bigger, smaller. Familiarization with the sticks serves as an introduction to mathematical problems through a dynamic, interesting approach to the subject.

T-44 MEETING IN SESSION 22 MINS.

The film contrasts by exemplification two radically different processes in group relations, the authoritarian and the democratic. The first sequence shows five nurses discussing staffing problems with an autocratic supervisor. The second sequence depicts the same group working democratically to solve its problems.

T-33 MENTAL HEALTH 11 MINS.
Good mental health is defined, its attributes described, and its importance to the individual and to society discussed. Illustrations are given of symptoms of mental ill-health, with explanations of the basic structure of the personality, and suggestions of various ways in which mental health can be maintained and improved.

T-25 MOTIVATING THE CLASS 22 MINS.
The film shows how a young student teacher sets out to correct the restive attitude of his geometry class by setting up goals which the students can recognize as attainable and desirable. This factor of adequate motivation is basic to all good teaching, and the techniques and psychological principles which this teacher employs to provide it apply with equal force in any area of the school curriculum.

T-78 NEW DIMENSIONS THROUGH TEACHING FILMS (Colour) 27 MINS.
Set in an up-to-date Instructional Materials Centre, this film emphasizes the modern role of the educational film as a basic curriculum tool. The effectiveness of a film utilization programme planned for specific subject areas and grade levels is dramatically demonstrated for both lay and professional audiences, using excerpts from more than sixty films selected from Coronet's library.

T-34 NEW TOOLS FOR LEARNING 22 MINS.
Promotion of a better understanding of the contribution of audio-visual materials to education is the purpose of this film, with special emphasis on the motion picture. Authentic classroom scenes show pupils and teachers at work.

T-43 OUR INVISIBLE COMMITTEES 30 MINS.
The various roles played by members of a committee in making policy decisions are portrayed. This film was produced by the National Training Laboratory in Group Development. It should prove useful with groups undertaking curriculum development surveys.

T-35 PRACTISING DEMOCRACY IN THE CLASSROOM 22 MINS.
The pupils are given an opportunity to make their choice of the teacher-dominated method, the free elective method, or the democratic method. They choose the latter, which we see is one whereby the pupils decide upon and plan their studies, but under the guidance of the teacher. The programme is shown to help the attitude of all the pupils, but particularly the dominating and the shy types.

T-26 PRINCIPLES OF DEVELOPMENT 22 MINS.

This film outlines the fundamentals of growth and change from early infancy and develops six basic principles. After defining the principles of development, the film considers the variables which make each child different from any other: intelligence, sex, glandular activity, race, nutrition, health, position in family, incentive, heredity, and parental attitude. All these factors must be brought into balance for the fullest development of personality. For Home and School audiences.

T-27 PROBLEMS OF PUPIL ADJUSTMENT— THE DROP-OUT 22 MINS.

Examines the causes which lie behind many adolescents leaving school as soon as the law permits. The film reveals the frustration of natural interests in a school situation that bears no relation to everyday life. It restates the principle that school must provide a programme that offers each child his chance to grow.

T-28 PROBLEMS OF PUPIL ADJUSTMENT— THE STAY-IN 22 MINS.

A sequel to "The Drop-Out", this film demonstrates how, when the curriculum is oriented in terms of growth of the "whole child" instead of in terms of subject matter, the result can be a happy, well-adjusted school environment that contributes to each child's physical, emotional, and mental maturity.

T-64 PROFILES OF ELEMENTARY PHYSICAL EDUCATION (Colour) 32 MINS.

Starting with kindergarten and carrying through the elementary grades, this film stresses successful methods used in the teaching of physical education. It urges careful organization and presents many ideas for the guidance of class activities. Based on the physical education programme of Cleveland schools, this film is invaluable to the beginning as well as the experienced teacher of physical education in any elementary school system. Produced by Bureau of Physical Welfare, Division of Elementary Physical Education, Board of Education, Cleveland, Ohio.

T-36 REPORT IN PRIMARY COLOURS (Colour) 30 MINS.

Children and teachers are shown as they engage in a co-operative effort to enrich living and learning through expression in the visual arts, drama, and the dance. The film was produced to help teachers understand the contributions which the arts can make to individual and group living in the elementary school.

T-45 SCHOOL BOARD IN ACTION (Colour) 22 MINS.

This film illustrates dramatically how a school board solves its problems. The functions of a school board, citizen participation, roles of superintendents and teachers, and framing of policies are outlined. The film was produced for the National School Boards Association through the co-operation of the W. K. Kellogg Foundation.

T-46 SKIPPY AND THE THREE R'S (Colour) 30 MINS.
This film should be effective in explaining to parents how teachers use pupils' interests and needs in giving meaning to words, building number concepts, and developing skills in the tool subjects. Just as Skippy represents all first-graders in a lovable and convincing manner, so Miss Temple interprets capable and understanding teachers. The film should be useful in dispelling parents' fears that their children are not learning to read, write, and use arithmetic.

T-29 SOCIAL DEVELOPMENT 22 MINS.
Provides an analysis of social behaviour at different age levels and the reasons underlying the changes in behaviour patterns as the child develops. Points out development from the stage where sexes and ages mix indiscriminately to the point where children begin to pick members of their own sex as playmates, to seek out the natural leader for their group. All these patterns mix and overlap, but at different age levels there is definite organization to children's social behaviour. The film stresses the point that while the child must meet and solve each problem as he reaches the level of growth and development, guidance from understanding adults can make the adjustments infinitely easier. For Home and School audiences.

T-74 STANDARDIZED TEST—AN EDUCATIONAL TOOL 22 MINS.
In this story of an eighth grade teacher who needs sympathetic and reliable information about the reading skills of her students, special attention is given to the criteria used to select an appropriate test.

T-71 TEACHING MACHINES AND PROGRAMME LEARNING 29 MINS.
This film presents B. F. Skinner explaining the theory of programme learning, Arthur Lumsdaine discussing a variety of teaching machines and programme materials, and Robert Glaser discussing the implementation of such machines and materials for education.

T-54 THEY GROW UP SO FAST (Colour) 30 MINS.
This film is designed to interpret physical education to the public. It depicts a well-rounded and integrated programme of physical education for all children and youth.

T-57 THREE R'S PLUS, THE 30 MINS.
This film offers an overall view of the teaching programme — the curriculum, materials and techniques — in the elementary school.

Teachers-in-training and in-service will be interested in the wide variety of good teaching-learning equipment and materials, and in the specific teaching techniques that are used in the film.

T-68 USING ANALYTICAL TOOLS 22 MINS.
By following the case of an individual student, this film shows how the various counselling tools and techniques are applied in studying a case. It shows a counsellor's use of cumulative records, tests, anecdotal records, interviews, time charts and autobiographies.

T-16 USING THE CLASSROOM FILM 22 MINS.
This film emphasizes the importance of the correct use of educational films. It illustrates clearly the latest techniques in the preparation, presentation, and follow-up procedure in film use.

T-72 VITAL DECISION, A (Colour) 22 MINS.
This film was produced by the Scarboro Board of Education to introduce the newer courses in the revised Secondary school programme. It shows the three streams of Business and Commerce, Arts and Science, and the Engineer, Technology and Trades programmes as they affect typical students in Scarboro schools.

T-37 WE PLAN TOGETHER 22 MINS.
This film was prepared to help teachers-in-preparation and teachers-in-service gain a better understanding of the process of co-operative planning in education. The film is of an experimental nature and shows a class planning and executing projects, with emphasis on the evaluation of the contribution of each student.

T-30 WHY CAN'T JIMMY READ? 16 MINS.
The film documents the procedures used in diagnosing reading problems, and the service rendered by a reading clinic.

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